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RECTIFICATION OF THE CIRCLE

TO

607 DECIMALS, &c.

BY

WILLIAM SHANKS,

HOUGHTON-LE-SPRING, DURHAM.

1853.

CONTRIBUTIONS TO MATHEMATICS,

COMPRISING CHIEFLY

THE

RECTIFICATION OF THE CIRCLE

TO 607 PLACES OF DECIMALS.

BY

WILLIAM SHANKS,

HOUGHTON-LE-SPRING, DURHAM.

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TO

WILLIAM RUTHERFORD, ESQUIRE, L.L.D., F.R.A.S.,

ROYAL MILITARY ACADEMY, WOOLWICH.

My dear Sir,

I know of no person to whom I can, with so great pleasure, so much propriety, and such deep gratitude, inscribe this small volume as to you, from whom I received my earliest lessons in numbers; and I earnestly wish it had been something more worthy of notice that the Pupil was presenting to the Master, than the present "Contributions to Mathematics" can pretend to be. Still, I venture to indulge and to express the thought, that whatever proves the firm determination of any of Great Britain's Mathematicians not to allow themselves to be outstripped by their Continental neighbours, even in calculation, redounds, in its measure, to their own credit, and also affords pleasure and satisfaction to all who feel interested in excellence of this kind.

You, Sir, have laboured long, ardently, and most successfully in the Study of Mathematics, and have evinced, in nearly every branch of that beautiful but abstruse science, such clearness and depth of thought as are rarely met with. This however is not all. We seldom indeed find profundity united with great facility of computation;—but you happily combine both in a very eminent degree.

I regret my inability adequately to convey to you the heart-felt sentiments of esteem, gratitude, and respect with which

I am, My dear Sir,

Your sincere and obliged Friend,

THE AUTHOR.

Houghton-le-Spring,
Feb. 28, 1853.

Geometry, have, even of late years, been pushed to a very great extent in our own country, without much regard being paid, as to the probability of their ultimate and direct utility. The Doctrine of Impossible or Imaginary Quantities, which certainly long perplexed Mathematicians, has also lately received a proper share of attention from men of genius. The Integration of Quantities seems to merit farther labour and research; and no doubt this important and abstruse branch will, by and by, obtain due consideration, and we shall have important simplifications of, and additions to, our already large stock of knowledge.

Holding sentiments somewhat similar to the above, and having, as before stated, occasionally had spare moments from the duties of an arduous profession, the Writer entertains the hope, that Mathematicians will look with indulgence on his present "Contributions" to their favourite science, and also induce their Friends and Patrons of Mathematical Studies, to accord him their generous support, by purchasing copies of the work.

Dr. Rutherford, of the Royal Military Academy, Woolwich,

a distinguished Mathematician, has kindly co-operated with the Author in separately calculating and then collating the value of π to 441 places of decimals, so that accuracy is ensured at least to that extent; and it is confidently hoped no error has crept into the remaining 86 places.

It is proper to state, that the talented writer just mentioned lately sent a "Paper on determining the value of π," to the Royal Society of London, an Abstract of which has just been published in the Proceedings of that Learned Body, wherein are given the values of $\tan^{-1}\frac{1}{5}$, of $\tan^{-1}\frac{1}{239}$, and of π, to 441 places of decimals: also, the extension of the same, by the present writer, to 527 places.

In the following pages, the ratio of the circumference of a circle to its diameter, is determined to the great extent of 527 places of decimals.

The values, of the base of Napier's Logarithms, of the Napierian logarithms of 2, 3, 5, and 10, and of the Modulus of the Common System, are given to 137 places of decimals, except that of M, which extends only to 136.

A few of the higher powers of 2, as far as 2^{721}, having been obtained in the calculation of $\tan^{-1}\frac{1}{5}$, conclude the volume.

It only remains to add, that Machin's formula, viz., $\frac{\pi}{4} = 4\tan^{-1}\frac{1}{5} - \tan^{-1}\frac{1}{239}$, was employed in finding π:—and that the values of $\tan^{-1}\frac{1}{5}$, and of $\tan^{-1}\frac{1}{239}$ are found and given separately; as also the *value of each term of the series* employed in determining these two arcs.

Houghton-le-Spring,
Feb. 28, 1853.

Since the above date, and while the following sheets were in the Press, the Author has extended the values of $\tan^{-1}\frac{1}{5}$ and of $\tan^{-1}\frac{1}{239}$ to 609, and the value of π to 607 decimals; which extensions are given in the proper place. Should Mathematicians evince a wish to possess the *extended values of each term of the series used in finding these arcs,* a few supplementary sheets might soon be furnished.

April 30, 1853.

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INTRODUCTORY REMARKS AND HISTORICAL NOTICES.

THE PROBLEM, "to find the ratio of the circumference of a circle to its diameter," has engaged the attention of Mathematicians from very remote times. The Greek Geometers and Arithmeticians, chiefly from their clumsy scale of notation, could not be expected to make any considerable progress in ascertaining the ratio in question: and indeed we may remark, by the way, that even in the Geometry of Curve lines at large, they did not and could not proceed to any very great extent. Until the time of Newton and Leibnitz, the *limits* of Mathematics were but contracted; and though since, and by, their very extraordinary labours, great additions indeed have been made to the previous stock of Mathematical knowledge, yet we must admit that not very much has lately been done, or perhaps remains to be done, towards extending the *boundaries* of that department of human knowledge and research. It would not be of any service to recapitulate in this place what is already duly recorded as matter of history respecting the various Mathematicians, and the different processes employed by them, who have applied themselves to the solution of this

striking and curious Problem. Nor can we well afford space even to glance at the ignorant, presumptuous, and abortive attempts made at different periods "to square the circle!" In later times, Mathematicians—and they alone are competent to deal with such enquiries—have pointed out satisfactorily how to find the value of π *ultimately* by means of infinite series of various degrees of convergency, as will be seen in what follows: but no one, so far as we know, has hitherto been able—and we are of opinion that it can never be accomplished—to ascertain the *limit*, strictly speaking, of the ratio under consideration. In other words, the circumference and diameter of a circle are incommensurable.* We proceed, then, to take up the history of the Problem since the year 1831. Previous to 1831, the value of π, as the late Professor Thomson of the University of Glasgow writes, in his work on the Differential and Integral Calculus, had been calculated "to the extraordinary extent of 140 figures!" We may here be permitted to indulge a smile at the learned writer's words, now that the ratio has been found to 607 places of decimals!

In the year 1841, Dr. Rutherford, Royal Military Academy, Woolwich, a distinguished Mathematician, presented a paper to the Royal Society of London, which was published in their transactions, in which he gave the value of π to 208 decimals.

* For full and interesting particulars, the reader is here referred to the History of this curious Problem, written by the profound Mathematician Professor De Morgan, and which is given in the Penny Cyclopædia.

The formula he employed is $\frac{\pi}{4} = 4 \tan^{-1}\frac{1}{5} - \tan^{-1}\frac{1}{70} + \tan^{-1}\frac{1}{99}$. Subsequently it was found that the last 56 figures were incorrect, an error having crept into the value of one of the terms of the series employed. But of this talented writer we shall have to speak afterwards.

The Mathematician who seems next to have engaged in the solution of this Problem is M. Dase, about the year 1846, then a young man of great promise, who used the formula $\frac{\pi}{4} = \tan^{-1}\frac{1}{2} + \tan^{-1}\frac{1}{5} + \tan^{-1}\frac{1}{8}$. He found the value of π correctly, as was afterwards shown by Dr. Clausen, to 200 places of decimals, and communicated his result to Professor Schumacher of Altona.

Somewhere about 1847, the eminent Mathematician Dr. Clausen, of Dorpat, above-mentioned, turned his attention to this subject, and employing Machin's formula, $\frac{\pi}{4} = 4 \tan^{-1}\frac{1}{5} - \tan^{-1}\frac{1}{239}$, and also the formula $\frac{\pi}{4} = 2 \tan^{-1}\frac{1}{3} + \tan^{-1}\frac{1}{7}$, he calculated the value of π from each of these formulæ, and found it correctly to 250 decimals. The values of the four arcs and of π are given in No. 589 of the "Astronomiche Nachrichten," published in 1847.

In the earlier portions of the year 1851, the Author of this Volume, not then aware of M. Dase's, or of Dr. Clausen's labours, employed Machin's formula, given above, and calculated the value of π to 315 decimals. Dr. Rutherford, in the same year, verified the Author's results, using also Machin's

formula; and moreover pushed his calculations to 350 places of decimals. During the latter part of 1851, and the early months of 1852, Dr. Rutherford and the present writer extended the value of π, the former to 441 places, and the latter to 527 decimals. In the months of March and April, 1853, the Author still further extended the ratio in question; and the value of π, given in this Volume, is, it is presumed, more extensive than has hitherto been determined, consisting of no less than 607 decimals. The values of $\tan^{-1}\frac{1}{5}$, and of $\tan^{-1}\frac{1}{239}$ are given to 609 places. These values, then, have been carefully collated, as far as 441 decimals, with Dr. Rutherford's results, and may be pronounced free from errors, inasmuch as each party worked independently of the other. The Author, therefore, is alone responsible for the accuracy of the additional 166 and 168 respective places of decimals.

Whether any other Mathematician will appear, possessing sufficient leisure, patience, and facility of computation, to calculate the value of π to a still greater extent, remains to be seen: all that the Author can say is, he takes leave of the subject for the present, and deems the farther extension of this ratio a work of considerable difficulty, notwithstanding the assertions of some writers, who have evidently had little or no experience in such matters.

EXPLANATORY REMARKS AND FORMULÆ.

FROM Machin's well known formula, viz. $\frac{\pi}{4} = 4 \tan^{-1}\frac{1}{5} - \tan^{-1}\frac{1}{239}$, the value of π, given afterwards, has been determined.

It may also as well be stated here, that from Newton's series we have,

$$\tan^{-1}\frac{1}{5} = \frac{1}{5} - \frac{1}{3.5^3} + \frac{1}{5.5^5} - \frac{1}{7.5^7} + \frac{1}{9.5^9} - \frac{1}{11.5^{11}} +, \text{\&c.};$$

$$\text{And, } \tan^{-1}\frac{1}{239} = \frac{1}{239} - \frac{1}{3.239^3} + \frac{1}{5.239^5} - \frac{1}{7.239^7} + \frac{1}{9.239^9} -, \text{\&c.}$$

The value of each term of the above series employed in finding the two arcs is given separately, so that its accuracy may readily be tested; and no difficulty can possibly arise to Mathematicians, for whose perusal chiefly the following pages are intended, in comprehending all that follows.

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	487804	878048	780487	804878	048780	487804	878048	780487
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$\frac{1}{49.5^{49}}$	265306	122448	979591	836734	693877	551020	408163	265306
	735849	056603	773584	905660	377358	490566	037735	849056
	298245	614035	087719	298245	614035	087719	298245	614035
	672131	147540	983606	557377	049180	327868	852459	016393
	307692	307692	307692	307692	307692	307692	307692	307692
	550724	637681	159420	289855	072463	768115	942028	985507
$\frac{1}{73.5^{73}}$	397260	273972	602739	726027	397260	273972	602739	726027
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	432098	765432	098765	432098	765432	098765	432098	765432
	117647	058823	529411	764705	882352	941176	470588	235294
	404494	382022	471910	112359	550561	797752	808988	764044
	408602	150537	634408	602150	537634	408602	150537	634408
$\frac{1}{97.5^{97}}$	350515	463917	525773	195876	288659	793814	432989	690721
	801980	198019	801980	198019	801980	198019	801980	198019
	047619	047619	047619	047619	047619	047619	047619	047619
	064220	183486	238532	110091	743119	266055	045871	559633
	185840	707964	601769	911504	424778	761061	946902	654867
	837606	837606	837606	837606	837606	837606	837606	837606
$\frac{1}{121.5^{121}}$	619834	710743	801652	892561	983471	074380	165289	256198
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	150375	939849	624060	150375	939849	624060	150375	939849
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	992907	801418	439716	312056	737588	652482	269503	546099
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$\frac{1}{25.5^{25}}$								
	241379	310344	827586	206896	551724	137931	034482	758620
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$\frac{1}{49.5^{49}}$	346938	775510	204081	632653	061224	489795	918367	346938
	584905	660377	358490	566037	735849	056603	773584	905660
	192982	456140	350877	192982	456140	350877	192982	456140
	934426	229508	196721	311475	409836	065573	770491	803278
	923076	923076	923076	923076	923076	923076	923076	923076
	289855	072463	768115	942028	985507	246376	811594	202898
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	112359	550561	797752	808988	764044	943820	224719	101123
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	062015	503875	968992	248062	015503	875968	992248	062015
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	470588	235294	117647	058823	529411	764705	882352	941176
	808988	764044	943820	224719	101123	595505	617977	528089
	860215	053763	440860	215053	763440	860215	053763	440860
$\frac{1}{97.5^{97}}$	587628	865979	381443	298969	072164	948453	608247	422680
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	247706	422018	348623	853211	009174	311926	605504	587155
	513274	336283	185840	707964	601769	911504	424778	761061
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$\frac{1}{121.5^{121}}$	165289	256198	347107	438016	528925	619834	710743	801652
	620155	038759	689922	480620	155038	759689	922480	620155
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85

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	390862	944162	436548	223350	253907	106598	984771	573604
	487562	189054	726368	159203	980099	502487	562189	054726
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	497607	655502	392344	497607	655502	392344	497607	655502
	803755	868544	600938	967136	150234	741784	037558	685446
$\frac{1}{217.5^{217}}$	440325	898617	511520	737327	188940	092165	898617	511520
	873082	720144	796380	090497	737556	561085	972850	678733
	316536	542443	747555	555555	555555	555555	555555	555555
	642768	354389	867900	087336	244541	484716	157205	240174
	767266	567918	662865	230008	583690	987124	463519	313304
	759262	603276	456023	274927	203375	527426	160337	552742
$\frac{1}{241.5^{241}}$	771524	947631	379386	406746	275500	082987	551867	219917
	793815	102121	659836	291422	209648	297273	469387	755102
	889024	801285	267833	959141	516089	084869	603212	851405
	327338	290438	071346	660273	999920	987713	091106	403162
	839749	830894	822300	704778	517179	642084	927078	910007
	719545	230384	919352	222413	045694	499114	273264	424704
$\frac{1}{265.5^{265}}$	842432	007880	032989	892407	847878	800086	151398	170655
	195201	454168	554401	441317	401217	474391	213859	452878
	321720	200387	817383	935459	131902	871798	454133	498566
	226170	856980	250536	582321	330501	137813	724060	525314
	139294	800440	617960	988659	376561	132043	697660	155248
	552045	708569	396848	544773	688616	497841	988934	975458
$\frac{1}{289.5^{289}}$	969535	407761	618148	660679	642913	526377	217809	530618
	165751	239496	754171	440070	642549	089469	613738	959477
	733837	387815	070970	894178	805108	508461	762137	780552
	135351	227663	421002	409863	500890	988582	129665	673997
	213	721807	353126	409051	115613	210164	266077	531110
		337528	291224	354976	106616	243516	375928	303673
$\frac{1}{313.5^{313}}$		533	143729	013805	431907	703101	579860	252247
			842266	181356	825742	269330	325776	637269
			1330	833044	187482	917380	075829	389129
			2	103125	696906	742234	973559	833766
				3324	089247	390595	629745	444114
				5	254656	395875	103722	216221

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071823 204419 889502 762430 939226 519337 016574 585635 359116 0220
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368159 203980 099502 487562 189054 726368 159203 980099 502487 5621
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672489 082969 432314 410480 349344 978165 938864 628820 960698 6899
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684801 207547 169811 320754 716981 132075 471698 113207 547169 8113
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467892 557190 072658 350007 117437 722419 928825 622775 800711 7437
946354 963135 833883 042786 537543 859649 122807 017543 859649 1228

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736627 949245 212581 686465 100553 933965 674244 252491 694352 1594
155114 623017 562276 653574 431450 579588 845471 200104 918032 7868
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043366 171041 966761 850434 293836 649358 084598 529937 709010 6460
943620 531893 683551 165804 255548 660009 570191 537861 464637 9934
160518 792330 044727 801234 705814 241043 176220 363524 887421 3123
566648 940217 064671 305449 159006 428277 733117 004202 280782 9987

$\frac{1}{169.5^{169}}$	816568	047337	278106	508875	739644	970414	201183	431952
	971098	265895	953757	225433	526011	560693	641618	497109
	757062	146892	655367	231638	418079	096045	197740	112994
	994475	138121	546961	325966	850828	729281	767955	801104
	729729	729729	729729	729729	729729	729729	729729	729729
	994708	994708	994708	994708	994708	994708	994708	994708
$\frac{1}{193.5^{193}}$	424870	466321	243523	316062	176165	803108	808290	155440
	416243	654822	335025	380710	659898	477157	360406	091370
	890547	263681	592039	800995	024875	621890	547263	681592
	097560	975609	756097	560975	609756	097560	975609	756097
	444976	076555	023923	444976	076555	023923	444976	076555
	037558	685446	009389	671361	502347	417840	375586	854460
$\frac{1}{217.5^{217}}$	207373	271889	400921	658986	175115	207373	271889	400921
	447963	800904	977375	565610	859728	506787	330316	742081
	555555	555555	555555	555555	555555	555555	555555	555555
	563318	777292	576419	213973	799126	637554	585152	838427
	828326	180257	510729	613733	905579	399141	630901	287553
	755274	261603	375527	426160	337552	742616	033755	274261
$\frac{1}{241.5^{241}}$	170124	481327	800829	875518	672199	170124	481327	800829
	448979	591836	734693	877551	020408	163265	306122	448979
	971887	550200	803212	851405	622489	959839	357429	718875
	664031	620553	359683	794466	403162	055335	968379	446640
	424124	513618	677042	801556	420233	463035	019455	252918
	616858	237547	892720	306513	409961	685823	754789	272030
$\frac{1}{265.5^{265}}$	207547	169811	320754	716981	132075	471698	113207	547169
	550185	873605	947955	390334	572490	706319	702602	230483
	457875	457875	457875	457875	457875	457875	457875	457875
	718411	552346	570397	111913	357400	722021	660649	819494
	722419	928825	622775	800711	743772	241992	882562	277580
	070175	438596	491228	070175	438596	491228	070175	438596
$\frac{1}{289.5^{289}}$	311418	685121	107266	435986	159169	550173	010380	622837
	849829	351535	836177	474402	730375	426621	160409	556313
	087542	087542	087542	087542	087542	087542	087542	087542
	684385	382059	800664	451827	242524	916943	521594	684385
	852459	016393	442622	950819	672131	147540	983606	557377
	637540	453074	433656	957928	802588	996763	754045	307443
$\frac{1}{313.5^{313}}$	977635	782747	603833	865814	696485	623003	194888	178913
	063091	482649	842271	293375	394321	766561	514195	583596
	664024	922118	380062	305295	950155	763239	875389	408099
	394452	440615	384615	384615	384615	384615	384615	384615
	300562	660392	462006	079027	355623	100303	951367	781155
	351667	916469	761537	537537	537537	537537	537537	537537

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688473 520249 221183 800623 052959 501557 632398 753894 080996 8847
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$\frac{1}{169.5^{169}}$	449704	142011	834319	526627	218934	911242	603550	295857
	543352	601156	069364	161849	710982	658959	537572	254335
	350282	485875	706214	689265	536723	163841	807909	604519
	386740	331491	712707	182320	441988	950276	243093	922651
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	089947	089947	089947	089947	089947	089947	089947	089947
$\frac{1}{193.5^{193}}$	787564	766839	378238	341968	911917	098445	595854	922279
	482233	502538	071065	989847	715736	040609	137055	837563
	636815	920398	009950	248756	218905	472636	815920	398009
	975609	756097	560975	609756	097560	975609	756097	560975
	234449	760765	550239	234449	760765	550239	234449	760765
	375586	854460	093896	713615	023474	178403	755868	544600
$\frac{1}{217.5^{217}}$	216589	861751	152073	732718	894009	216589	861751	152073
	049773	755656	108597	285067	873303	167420	814479	638009
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	321888	412017	167381	974248	927038	626609	442060	085836
	527426	160337	552742	616033	755274	261603	375527	426160
$\frac{1}{241.5^{241}}$	298755	186721	991701	244813	278008	298755	186721	991701
	510204	081632	653061	224489	795918	367346	938775	510204
	622489	959839	357429	718875	502008	032128	514056	224899
	794466	403162	055335	968379	446640	316205	533596	837944
	046692	607003	891050	583657	587548	638132	295719	844357
	134099	616858	237547	892720	306513	409961	685823	754789
$\frac{1}{265.5^{265}}$	754716	981132	075471	698113	207547	169811	320754	716981
	617100	371747	211895	910780	669144	981412	639405	204460
	754578	754578	754578	754578	754578	754578	754578	754578
	606498	194945	848375	451263	537906	137184	115523	465703
	117437	722419	928825	622775	800711	743772	241992	882562
	280701	754385	964912	280701	754385	964912	280701	754385
$\frac{1}{289.5^{289}}$	446366	782006	920415	224913	494809	688581	314878	892733
	378839	590443	686006	825938	566552	901023	890784	982935
	420875	420875	420875	420875	420875	420875	420875	420875
	272425	249169	435215	946843	853820	598006	644518	272425
	770491	803278	688524	590163	934426	229508	196721	311475
	404530	744336	569579	288025	889967	637540	453074	433656
$\frac{1}{313.5^{313}}$	405750	798722	044728	434504	792332	268370	607028	753993
	321766	561514	195583	596214	511041	009463	722397	476340
	352024	922118	380062	305295	950155	763239	875389	408099
	153846	153846	153846	153846	153846	153846	153846	153846
	486322	188449	848024	316109	422492	401215	805471	124620
	375375	375375	375375	375375	375375	375375	375375	375375

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260115 606936 416184 971098 265895 953757 225433 526011 560693 6416
774011 299435 028248 587570 621468 926553 672316 384180 790960 4519
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451776 649746 192893 401015 228426 395939 086294 416243 654822 3350
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938967 136150 234741 784037 558685 446009 389671 361502 347417 8403

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598393 574297 188755 020080 321285 140562 248995 983935 742971 8875
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976653 696498 054474 708171 206225 680933 852140 077821 011673 1517
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132075 471698 113207 547169 811320 754716 981132 075471 698113 2075
966542 750929 368029 739776 951672 862453 531598 513011 152416 3568
754578 754578 754578 754578 754578 754578 754578 754578 754578 7545
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277580 071174 377224 199288 256227 758007 117437 722419 928825 6227
964912 280701 754385 964912 280701 754385 964912 280701 754385 9649

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688473 520249 221183 800623 052959 501557 632398 753894 080996 8847
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375375 375375 375375 375375 375375 375375 375375 375375 375375 3753

$\frac{1}{337.5^{337}}$	8307 658539 235178 822542 13 136332 798696 798888 20774 443985 417314 32 858146 360889 51977 305744 82 231883
$\frac{1}{361.5^{361}}$	130113 205
$\frac{1}{385.5^{385}}$	
$\frac{1}{409.5^{409}}$	
$\frac{1}{433.5^{433}}$	

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817484 682398 207258 970808 856579 376525 060195 438812 211657 4940
150344 300696 410385 041643 453339 484683 085025 205556 977975 1937

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899623 695240 173404 009257 800708 999660 333812 507030 783185 2967
325868 239127 426182 297944 191207 626167 484105 546081 588014 5805
515 797877 696601 656913 421583 080382 008800 578858 998846 0155
816520 353870 906813 914933 689077 909768 838688 230903 2130
1292 716738 726852 992528 839898 298674 993604 978322 5218

2 046857 464747 765153 884625 459747 720197 666479 9621
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5 133289 356883 962686 179864 766227 361391 3997
8130 509691 709409 917052 642229 228626 8083
12 879051 761031 963040 677901 107246 9420
20402 961999 699030 831849 237902 2460

32 325475 246466 924154 127887 9233
51219 832932 900617 836468 0141
81 165624 944989 756034 3838
128631 128178 853124 0525
203 872771 626530 5043
323154 976004 7569

512 271537 0200
812132 0843
1287 6252
2 0416
32

$\frac{1}{337.5^{337}}$	119468	749750	430531	000593	471810	089020	771513	353115
	073042	866715	147894	845500	058651	026392	961876	832844
	536667	397646	608071	569355	666179	710144	927536	231884
	024138	224651	865122	222081	043919	000573	065902	578796
	028575	294007	494621	768410	226784	488300	056657	223796
	047977	981305	477403	255951	815395	204142	834375	350140
$\frac{1}{361.5^{361}}$	353024	390645	212434	051910	802429	234738	521847	632132
	427096	731200	100478	635365	434738	309934	205397	860800
	238421	204582	712354	145048	925240	886647	700747	838348
	719605	265091	650491	619000	635081	668148	731374	052342
	029001	221279	062856	799464	773419	142545	228548	764017
	322397	620831	169371	955961	777300	069361	635910	395313
$\frac{1}{385.5^{385}}$	021011	256077	035534	673102	218959	589928	007411	041498
	021976	717053	325074	265703	421508	686651	402705	823140
	014011	395187	516512	789371	434629	890601	963951	766168
	429023	703690	916650	839400	394856	663161	739332	324610
	166070	114355	572245	028960	566411	004868	928520	757836
	197477	902679	927247	289902	669381	257532	651616	145477
$\frac{1}{409.5^{409}}$	628870	331738	231278	377124	344571	538031	494274	443184
	817159	159189	078688	979588	353925	151608	929321	678439
	459742	874753	937993	279802	666628	953813	388922	052194
	912162	328850	441395	318565	996055	047121	102833	940126
	807657	488340	502723	115027	261305	747481	742999	691628
	766408	408140	026904	083259	250670	601184	819546	013497
$\frac{1}{433.5^{433}}$	119832	939333	365622	325549	074248	638107	744249	737606
	191402	792357	826443	256629	611896	200129	247243	057707
	910565	598259	448054	986678	084863	124315	488366	603959
	818098	191204	790711	342918	202374	560495	543839	531406
	375889	723635	050803	978788	770067	017120	429459	273377
	51344	015844	281281	451607	862808	865662	470897	402962
$\frac{1}{457.5^{457}}$	81	431384	428741	953602	024899	264476	656802	858725
		129159	714304	329970	659003	484473	287053	046096
		204	877860	797578	035178	668753	005368	882423
			325008	802629	846605	912429	748904	039335
			515	616502	100289	414538	450916	654526
				818068	278384	693980	970020	238415
$\frac{1}{481.5^{481}}$				1298	024345	245734	815543	283671
				2	059710	383713	644358	849713
					3268	579259	226560	373143
					5	187294	954196	472283
						8232	873762	314240
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615454 265695 714781 751575 010450 076932 245907 420251 198898 0541
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704071 908940 905499 397813 240088 008155 947263 406352 766850 8335

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	445747	800586	510263	929618	768328	445747	800586	510263
	362318	840579	710144	927536	231884	057971	014492	753623
	438395	415472	779369	627507	163323	782234	957020	057306
	223796	033994	334277	620396	600566	572237	960339	943342
	635854	341736	694677	871148	459383	753501	400560	224089
$\frac{1}{361.5^{361}}$	152354	570637	119113	573407	202216	066481	994459	833795
	671232	876712	328767	123287	671232	876712	328767	123287
	387533	875338	753387	533875	338753	387533	875338	753387
	415549	597855	227882	037533	512064	343163	538873	994638
	856763	925729	442970	822281	167108	753315	649867	374005
	209973	753280	839895	013123	359580	052493	438320	209973
$\frac{1}{385.5^{385}}$	831168	831168	831168	831168	831168	831168	831168	831168
	262210	796915	167095	115681	233933	161953	727506	426735
	157760	814249	363867	684478	371501	272264	631043	256997
	841309	823677	581863	979848	866498	740554	156171	284634
	897755	610972	568578	553615	960099	750623	441396	508728
	975308	641975	308641	975308	641975	308641	975308	641975
$\frac{1}{409.5^{409}}$	249388	753056	234718	826405	867970	660146	699266	503667
	624697	336561	743341	404358	353510	895883	777239	709443
	522781	774580	335731	414868	105515	587529	976019	184652
	750593	824228	028503	562945	368171	021377	672209	026128
	160470	588235	294117	647058	823529	411764	705882	352941
	496011	934731	934731	934731	934731	934731	934731	934731
$\frac{1}{433.5^{433}}$	874811	230004	618937	644341	801385	681293	302540	415704
	193159	883798	963844	393592	677345	537757	437070	938215
	245240	492949	551554	467120	181405	895691	609977	324263
	591623	015037	809446	240071	910112	359550	561797	752808
	982746	627141	886236	805619	000445	434298	440979	955456
	361841	071030	769825	767154	871280	176600	441501	103752
$\frac{1}{457.5^{457}}$	007464	031527	971776	738984	756784	910004	376367	614879
	931402	728199	247837	230263	656516	618495	000433	839479
	130433	984198	537129	472561	381662	465930	756800	688172
	911916	935787	300024	785346	664537	221481	135358	336272
	091655	607756	056638	347989	268788	728818	180642	648827
	999642	274557	546716	276523	602261	256415	030606	101376
$\frac{1}{481.5^{481}}$	929742	467742	083824	644204	247012	985012	257695	132175
	092741	298563	245995	281332	329048	456068	588522	726131
	607394	616048	435744	156111	071344	256854	620091	398027
	987748	530522	507700	053200	286617	078593	434188	153163
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	185815	351492	346111	470095	974337	360745	873355	691457

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$\frac{1}{553.5^{553}}$	
$\frac{1}{577.5^{577}}$	
$\frac{1}{601.5^{601}}$	

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13 454411 496689 986995 513563 5685
21374 654441 467136 862253 0524
33 959029 200503 148898 9046
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85 729775 207315 2631
136223 284804 4637
216 466949 6653
343995 0167
546 6794
8688

13

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	941159	874104	788231	873140	917654	799304	765025	986897
	866345	576221	190915	274926	873222	881225	251073	366790
	926884	132396	445558	033380	386803	755011	430727	429438
	330798	308165	678195	327457	221220	660395	672659	304663
	434503	149466	070303	511666	606361	161033	344443	292945
$\frac{1}{529.5^{529}}$	772788	246967	016066	266445	746596	112240	582248	265342
	254963	767302	500717	445568	329605	851687	430448	058033
	372284	232962	300880	096531	807581	914097	428381	165929
	823074	060282	737909	272049	796911	412903	128485	148055
	311234	592489	138968	686726	396888	452328	456785	351824
	694497	990099	545590	493068	898757	899326	831355	768354
$\frac{1}{553.5^{553}}$	441751	260460	223220	337593	330417	122854	916254	363303
	813530	451553	420476	670295	695832	590790	488384	024884
	856288	446236	050638	732279	086495	768279	701396	163712
	940928	503556	356600	094382	466739	891330	279398	182648
	739097	714177	882155	301380	178822	377612	939494	861084
	864138	350015	685067	913065	229519	720580	416789	033370
$\frac{1}{577.5^{577}}$	058934	214972	780554	714493	411096	054904	381501	060980
	709111	201492	707179	015684	028084	550564	350645	441961
	496092	973970	782257	424979	452773	516920	007898	051286
	856829	105303	288034	283446	147313	745351	166599	987395
	330840	262645	594972	417384	012899	204845	900403	716404
	265428	980303	514473	215794	998243	616022	709866	504264
$\frac{1}{601.5^{601}}$	808704	056176	349279	575400	544729	321633	984846	030756
	21947	850942	841615	648330	091179	854075	509487	318914
	34	885910	858244	144413	109241	809685	952533	963423
		55453	232528	993628	574443	140651	481226	996890
		88	149968	337823	259166	635060	536422	670078
			140131	479457	486507	969890	711371	266441
$\frac{1}{625.5^{625}}$			222	775420	782333	750910	213457	309584
				354173	959908	320748	664886	259633
				563	097430	097526	068651	408422
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								23021
								36

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$\frac{1}{745.5^{745}}$	

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6 043623 184499 898425 149816 1459
9615 851225 770549 683976 1649

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24344 947919 898426 6978
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61642 869494 3130
98 093293 5453
156102 0401

248 4222
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$\frac{1}{3.5^{3}}$	·002666 666666 666666 666666 666666 666666 666666 666666
	1 828571 428571 428571 428571 428571 428571 428571
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	2 184533 333333 333333 333333 333333 333333
	2759 410526 315789 473684 210526 315789
	3 647220 869565 217391 304347 826086
$\frac{1}{27.5^{27}}$	4971 026962 962962 962962 962962
	6 927366 606451 612903 225806
	9817 068105 142857 142857
	14 096302 920205 128205
	20456 030284 204651
	29 944146 458580
$\frac{1}{51.5^{51}}$	44152 937523
	65 506903
	97705
	146
$\frac{1}{75.5^{75}}$	
$\frac{1}{99.5^{99}}$	
$\frac{1}{123.5^{123}}$	
$\frac{1}{147.5^{147}}$	

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956521 739130 434782 608695 652173 913043 478260 869565 217391 3043

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128205 128205 128205 128205 128205 128205 128205 128205 128205 1282
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670843 578181 818181 818181 818181 818181 818181 818181 818181 8181
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402730 743726 600126 984126 984126 984126 984126 984126 984126 9841
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503719 091506 095489 460906 666666 666666 666666 666666 6666
765 142923 806727 325763 402531 645569 620253 164556 9620
1 165229 705652 654626 222820 240963 855421 686746 9879
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2 720747 339088 747856 921152 140659 340659 3406
4169 903290 224438 820712 839491 368421 0526

6 402275 758728 431320 690420 229171 7171
9845 829904 685276 904828 762760 2019
15 164418 395253 585363 698879 4661
23388 724587 994719 047434 6681
36 120325 972416 192198 4730
55849 915789 282179 5337

86 453853 384384 7722
133969 435795 6450
207 806025 6005
322638 0960
501 3656
7797

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	818181	818181	818181	818181	818181	818181	818181	818181
	333333	333333	333333	333333	333333	333333	333333	333333
	842105	263157	894736	842105	263157	894736	842105	263157
	478260	869565	217391	304347	826086	956521	739130	434782
$\frac{1}{27.5^{27}}$	629629	629629	629629	629629	629629	629629	629629	629629
	064516	129032	258064	516129	032258	064516	129032	258064
	571428	571428	571428	571428	571428	571428	571428	571428
	051282	051282	051282	051282	051282	051282	051282	051282
	046511	627906	976744	186046	511627	906976	744186	046511
	617021	276595	744680	851063	829787	234042	553191	489361
$\frac{1}{51.5^{51}}$	450980	392156	862745	098039	215686	274509	803921	568627
	818181	818181	818181	818181	818181	818181	818181	818181
	288135	593220	338983	050847	457627	118644	067796	610169
	269841	269841	269841	269841	269841	269841	269841	269841
	746268	656716	417910	447761	194029	850746	268656	716417
	028169	014084	507042	253521	126760	563380	281690	140845
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	518072	289156	626506	024096	385542	168674	698795	180722
	264367	816091	954022	988505	747126	436781	609195	402298
	593406	593406	593406	593406	593406	593406	593406	593406
	315789	473684	210526	315789	473684	210526	315789	473684
$\frac{1}{99.5^{99}}$	717171	717171	717171	717171	717171	717171	717171	717171
	417475	728155	339805	825242	718446	601941	747572	815533
	801869	158878	504672	897196	261682	242990	654205	607476
	496400	720720	720720	720720	720720	720720	720720	720720
	179424	006678	260869	565217	391304	347826	086956	521739
	734058	941321	250420	168067	226890	756302	521008	403361
$\frac{1}{123.5^{123}}$	213858	250588	842000	650406	504065	040650	406504	065040
	643556	592942	644756	738015	748031	496062	992125	984251
	731074	585493	785842	859306	601526	717557	251908	396946
	435564	690615	699981	575283	782693	925925	925925	925925
	744273	971030	021519	395829	217964	474014	388489	208633
	463356	129588	511026	474920	506420	106986	159440	559440
$\frac{1}{147.5^{147}}$	136459	971989	454770	903792	257223	598098	492743	401360
	18903	942949	747812	994149	483039	066160	746791	346013
	29	465758	817155	300770	235581	304763	770557	579285
		45959	170985	248519	440367	447569	694434	580375
		71	730141	709492	167764	598028	599572	172743
			112019	287172	668008	101839	316519	571393

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608695 652173 913043 478260 869565 217391 304347 826086 956521 7391

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702127 659574 468085 106382 978723 404255 319148 936170 212765 9574

450980 392156 862745 098039 215686 274509 803921 568627 450980 3921
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850574 712643 678160 919540 229885 057471 264367 816091 954022 9885
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980582 524271 844660 194174 757281 553398 058252 427184 466019 4174
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564885 496183 206106 870229 007633 587786 259541 984732 824427 4809
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237200 503144 654088 050314 465408 805031 446540 880503 144654 0880
849449 962012 269938 650306 748466 257668 711656 441717 791411 0429
123328 961377 801197 604790 419161 676646 706586 826347 305389 2215

$\frac{1}{3.5^{3}}$	666666	666666	666666	666666	666666	666666	666666	666666
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	304347	826086	956521	739130	434782	608695	652173	913043
$\frac{1}{27.5^{27}}$	296296	296296	296296	296296	296296	296296	296296	296296
	645161	290322	580645	161290	322580	645161	290322	580645
	285714	285714	285714	285714	285714	285714	285714	285714
	820512	820512	820512	820512	820512	820512	820512	820512
	465116	279069	767441	860465	116279	069767	441860	465116
	468085	106382	978723	404255	319148	936170	212765	957446
$\frac{1}{51.5^{51}}$	568627	450980	392156	862745	098039	215686	274509	803921
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	491525	423728	813559	322033	898305	084745	762711	864406
	412698	412698	412698	412698	412698	412698	412698	412698
	567164	179104	477611	940298	507462	686567	164179	104477
	281690	140845	070422	535211	267605	633802	816901	408450
$\frac{1}{75.5^{75}}$	666666	666666	666666	666666	666666	666666	666666	666666
	316455	696202	531645	569620	253164	556962	025316	455696
	385542	168674	698795	180722	891566	265060	240963	855421
	057471	264367	816091	954022	988505	747126	436781	609195
	065934	065934	065934	065934	065934	065934	065934	065934
	263157	894736	842105	263157	894736	842105	263157	894736
$\frac{1}{99.5^{99}}$	717171	717171	717171	717171	717171	717171	717171	717171
	757281	553398	058252	427184	466019	417475	728155	339805
	401869	158878	504672	897196	261682	242990	654205	607476
	207207	207207	207207	207207	207207	207207	207207	207207
	565217	391304	347826	086956	521739	130434	782608	695652
	260504	201680	672268	907563	025210	084033	613445	378151
$\frac{1}{123.5^{123}}$	406504	065040	650406	504065	040650	406504	065040	650406
	157480	314960	629921	259842	519685	039370	078740	157480
	160305	343511	450381	679389	312977	099236	641221	374045
	259259	259259	259259	259259	259259	259259	259259	259259
	115107	913669	064748	201438	848920	863309	352517	985611
	405594	405594	405594	405594	405594	405594	405594	405594
$\frac{1}{147.5^{147}}$	319727	891156	462585	034013	605442	176870	748299	319727
	476821	192052	980132	450331	125827	814569	536423	841059
	225806	451612	903225	806451	612903	225806	451612	903225
	503144	654088	050314	465408	805031	446540	880503	144654
	447852	760736	196319	018404	907975	460122	699386	503067
	568862	275449	101796	407185	628742	514970	059880	239520

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857142 857142 857142 857142 857142 857142 857142 857142 857142 8571
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260504 201680 672268 907563 025210 084033 613445 378151 260504 2016

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806451 612903 225806 451612 903225 806451 612903 225806 451612 9032
088050 314465 408805 031446 540880 503144 654088 050314 465408 8050
484662 576687 116564 417177 914110 429447 852760 736196 319018 4049
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	333333	333333	333333	333333	333333	333333	333333	333333
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	739130	434782	608695	652173	913043	478260	869565	217391
$\frac{1}{27.5^{27}}$	962962	962962	962962	962962	962962	962962	962962	962962
	451612	903225	806451	612903	225806	451612	903225	806451
	142857	142857	142857	142857	142857	142857	142857	142857
	128205	128205	128205	128205	128205	128205	128205	128205
	651162	790697	674418	604651	162790	697674	418604	651162
	872340	425531	914893	617021	276595	744680	851063	829787
$\frac{1}{51.5^{51}}$	803921	568627	450980	392156	862745	098039	215686	274509
	818181	818181	818181	818181	818181	818181	818181	818181
	779661	016949	152542	372881	355932	203389	830508	474576
	984126	984126	984126	984126	984126	984126	984126	984126
	791044	776119	402985	074626	865671	641791	044776	119402
	816901	408450	704225	352112	676056	338028	169014	084507
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	891566	265060	240963	855421	686746	987951	807228	915662
	229885	057471	264367	816091	954022	988505	747126	436781
	340659	340659	340659	340659	340659	340659	340659	340659
	052631	578947	368421	052631	578947	368421	052631	578947
$\frac{1}{99.5^{99}}$	717171	717171	717171	717171	717171	717171	717171	717171
	815533	980582	524271	844660	194174	757281	553398	058252
	401869	158878	504672	897196	261682	242990	654205	607476
	072072	072072	072072	072072	072072	072072	072072	072072
	086956	521739	130434	782608	695652	173913	043478	260869
	806722	689075	630252	100840	336134	453781	512605	042016
$\frac{1}{123.5^{123}}$	065040	650406	504065	040650	406504	065040	650406	504065
	425196	850393	700787	401574	803149	606299	212598	425196
	862595	419847	328244	274809	160305	343511	450381	679389
	592592	592592	592592	592592	592592	592592	592592	592592
	474820	143884	892086	330935	251798	561151	079136	690647
	944055	944055	944055	944055	944055	944055	944055	944055
$\frac{1}{147.5^{147}}$	136054	421768	707482	993197	278911	564625	850340	136054
	145695	364238	410596	026490	066225	165562	913907	284768
	258064	516129	032258	064516	129032	258064	516129	032258
	314465	408805	031446	540880	503144	654088	050314	465408
	079754	601226	993865	030674	846625	766871	165644	171779
	437125	748502	994011	976047	904191	616766	467065	868263

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304347	826086	956521	739130	434782	608695	652173	913043	478260	8695
962962	962962	962962	962962	962962	962962	962962	962962	962962	9629
612903	225806	451612	903225	806451	612903	225806	451612	903225	8064
142857	142857	142857	142857	142857	142857	142857	142857	142857	1428
128205	128205	128205	128205	128205	128205	128205	128205	128205	1282
790697	674418	604651	162790	697674	418604	651162	790697	674418	6046
234042	553191	489361	702127	659574	468085	106382	978723	404255	3191
803921	568627	450980	392156	862745	098039	215686	274509	803921	5686
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271186	440677	966101	694915	254237	288135	593220	338983	050847	4576
984126	984126	984126	984126	984126	984126	984126	984126	984126	9841
985074	626865	671641	791044	776119	402985	074626	865671	641791	0447
042253	521126	760563	380281	690140	845070	422535	211267	605633	8028
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253164	556962	025316	455696	202531	645569	620253	164556	962025	3164
650602	409638	554216	867469	879518	072289	156626	506024	096385	5421
609195	402298	850574	712643	678160	919540	229885	057471	264367	8160
340659	340659	340659	340659	340659	340659	340659	340659	340659	3406
368421	052631	578947	368421	052631	578947	368421	052631	578947	3684
717171	717171	717171	717171	717171	717171	717171	717171	717171	7171
427184	466019	417475	728155	339805	825242	718446	601941	747572	8155
635514	018691	588785	046728	971962	616822	429906	542056	074766	3551
072072	072072	072072	072072	072072	072072	072072	072072	072072	0720
565217	391304	347826	086956	521739	130434	782608	695652	173913	0434
806722	689075	630252	100840	336134	453781	512605	042016	806722	6890
040650	406504	065040	650406	504065	040650	406504	065040	650406	5040
850393	700787	401574	803149	606299	212598	425196	850393	700787	4015
312977	099236	641221	374045	801526	717557	251908	396946	564885	4961
592592	592592	592592	592592	592592	592592	592592	592592	592592	5925
482014	388489	208633	093525	179856	115107	913669	064748	201438	8489
944055	944055	944055	944055	944055	944055	944055	944055	944055	9440
421768	707482	993197	278911	564625	850340	136054	421768	707482	9931
211920	529801	324503	311258	278145	695364	238410	596026	490066	2251
064516	129032	258064	516129	032258	064516	129032	258064	516129	0322
805031	446540	880503	144654	088050	314465	408805	031446	540880	5031
141104	294478	527607	361963	190184	049079	754601	226993	865030	6748
473053	892215	568862	275449	101796	407185	628742	514970	059880	2395

$\frac{1}{3.5^{3}}$	666666	666666	666666	666666	666666	666666	666666	666666
	714285	714285	714285	714285	714285	714285	714285	714285
	818181	818181	818181	818181	818181	818181	818181	818181
	333333	333333	333333	333333	333333	333333	333333	333333
	894736	842105	263157	894736	842105	263157	894736	842105
	652173	913043	478260	869565	217391	304347	826086	956521
$\frac{1}{27.5^{27}}$	629629	629629	629629	629629	629629	629629	629629	629629
	516129	032258	064516	129032	258064	516129	032258	064516
	571428	571428	571428	571428	571428	571428	571428	571428
	051282	051282	051282	051282	051282	051282	051282	051282
	511627	906976	744186	046511	627906	976744	186046	511627
	489361	702127	659574	468085	106382	978723	404255	319148
$\frac{1}{51.5^{51}}$	274509	803921	568627	450980	392156	862745	098039	215686
	818181	818181	818181	818181	818181	818181	818181	818181
	271186	440677	966101	694915	254237	288135	593220	338983
	269841	269841	269841	269841	269841	269841	269841	269841
	761194	029850	746268	656716	417910	447761	194029	850746
	169014	084507	042253	521126	760563	380281	690140	845070
$\frac{1}{75.5^{75}}$	666666	666666	666666	666666	666666	666666	666666	666666
	556962	025316	455696	202531	645569	620253	164556	962025
	686746	987951	807228	915662	650602	409638	554216	867469
	919540	229885	057471	264367	816091	954022	988505	747126
	593406	593406	593406	593406	593406	593406	593406	593406
	210526	315789	473684	210526	315789	473684	210526	315789
$\frac{1}{99.5^{99}}$	717171	717171	717171	717171	717171	717171	717171	717171
	339805	825242	718446	601941	747572	815533	980582	524271
	401869	158878	504672	897196	261682	242990	654205	607476
	720720	720720	720720	720720	720720	720720	720720	720720
	782608	695652	173913	043478	260869	565217	391304	347826
	756302	521008	403361	344537	815126	050420	168067	226890
$\frac{1}{123.5^{123}}$	650406	504065	040650	406504	065040	650406	504065	040650
	748031	496062	992125	984251	968503	937007	874015	748031
	832061	068702	290076	335877	862595	419847	328244	274809
	925925	925925	925925	925925	925925	925925	925925	925925
	208633	093525	179856	115107	913669	064748	201438	848920
	559440	559440	559440	559440	559440	559440	559440	559440
$\frac{1}{147.5^{147}}$	972789	115646	258503	401360	544217	687074	829931	972789
	655629	139072	847682	119205	298013	245033	112582	781456
	580645	161290	322580	645161	290322	580645	161290	322580
	446540	880503	144654	088050	314465	408805	031446	540880
	466257	668711	656441	717791	411042	944785	276073	619631
	209580	838323	353293	413173	652694	610778	443113	772455

666666	666666	666666	666666	666666	666666	666666	666666	666666	6666
714285	714285	714285	714285	714285	714285	714285	714285	714285	7142
818181	818181	818181	818181	818181	818181	818181	818181	818181	8181
333333	333333	333333	333333	333333	333333	333333	333333	333333	3333
263157	894736	842105	263157	894736	842105	263157	894736	842105	2631
739130	434782	608695	652173	913043	478260	869565	217391	304347	8260
629629	629629	629629	629629	629629	629629	629629	629629	629629	6296
129032	258064	516129	032258	064516	129032	258064	516129	032258	0645
571428	571428	571428	571428	571428	571428	571428	571428	571428	5714
051282	051282	051282	051282	051282	051282	051282	051282	051282	0512
906976	744186	046511	627906	976744	186046	511627	906976	744186	0465
936170	212765	957446	808510	638297	872340	425531	914893	617021	2765
274509	803921	568627	450980	392156	862745	098039	215686	274509	8039
818181	818181	818181	818181	818181	818181	818181	818181	818181	8181
050847	457627	118644	067796	610169	491525	423728	813559	322033	8983
269841	269841	269841	269841	269841	269841	269841	269841	269841	2698
268656	716417	910447	761194	029850	746268	656716	417910	447761	1940
422535	211267	605633	802816	901408	450704	225352	112676	056338	0281
666666	666666	666666	666666	666666	666666	666666	666666	666666	6666
316455	696202	531645	569620	253164	556962	025316	455696	202531	6455
879518	072289	156626	506024	096385	542168	674698	795180	722891	5662
436781	609195	402298	850574	712643	678160	919540	229885	057471	2643
593406	593406	593406	593406	593406	593406	593406	593406	593406	5934
473684	210526	315789	473684	210526	315789	473684	210526	315789	4736
717171	717171	717171	717171	717171	717171	717171	717171	717171	7171
844660	194174	757281	553398	058252	427184	466019	417475	728155	3398
635514	018691	588785	046728	971962	616822	429906	542056	074766	3551
720720	720720	720720	720720	720720	720720	720720	720720	720720	7207
086956	521739	130434	782608	695652	173913	043478	260869	565217	3913
756302	521008	403361	344537	815126	050420	168067	226890	756302	5210
406504	065040	650406	504065	040650	406504	065040	650406	504065	0406
496062	992125	984251	968503	937007	874015	748031	496062	992125	9842
160305	343511	450381	679389	312977	099236	641221	374045	801526	7175
925925	925925	925925	925925	925925	925925	925925	925925	925925	9259
863309	352517	985611	510791	366906	474820	143884	892086	330935	2517
559440	559440	559440	559440	559440	559440	559440	559440	559440	5594
115646	258503	401360	544217	687074	829931	972789	115646	258503	4013
953642	384105	960264	900662	251655	629139	072847	682119	205298	0132
645161	290322	580645	161290	322580	645161	290322	580645	161290	3225
503144	654088	050314	465408	805031	446540	880503	144654	088050	3144
901840	490797	546012	269938	650306	748466	257668	711656	441717	7914
089820	359281	437125	748502	994011	976047	904191	616766	467065	8682

$\frac{1}{171.5^{171}}$	175 038324 751677 729618 780499 263330 273659 918011 765867 563990 540562 428 071380 130136 552614 063415 669943 405843 011522 779605 1048 980904 977720 715881 1 643220 349577 665121
$\frac{1}{195.5^{195}}$	2575 221224 774022 4 037532 774520 6332 760765 9 936621 15597 24
$\frac{1}{219.5^{219}}$	
$\frac{1}{243.5^{243}}$	
$\frac{1}{267.5^{267}}$	
$\frac{1}{291.5^{291}}$	

270424 289464 796189 941520 467836 257309 941520 467836 257309 9415
555211 360489 128961 357531 428571 428571 428571 428571 428571 4285
405114 297100 206458 710503 401117 318435 754189 944134 078212 2905
257770 626965 516388 687293 378000 437158 469945 355191 256830 6010
649302 006628 746006 409666 521396 141860 962566 844919 786096 2566
422981 524399 912674 372344 357189 537830 601047 120418 848167 5392

877471 093096 700581 093785 581720 805757 748880 410256 410256 4102
076069 200909 779751 664830 457796 466790 936772 114010 050251 2562
552671 036618 569822 034138 335062 868941 015932 355867 491625 6157
722954 142766 636287 334283 517542 166279 381845 289029 882904 7342
199595 461668 646018 665237 510431 326850 576925 436775 955910 9860
491230 620594 694580 911169 228760 565655 556998 930360 258431 2351

38470 243531 893036 236682 384541 980066 600509 623890 611547 4901
60 448310 912893 811198 804966 562824 284021 607947 135741 1939
95013 027901 852475 047284 634667 910592 682421 654352 5658
149 388449 064730 817909 843200 482186 698105 002358 7049
234953 067124 785150 210544 880417 941291 998335 6245
369 633277 150289 608699 434623 586384 626742 1514

581678 046017 575087 928657 613413 306507 2683
915 613053 812280 138407 538785 810095 4252
1 441634 577157 821158 161989 355187 8474
2270 433122 300317 557324 921274 6801
3 576589 628951 851596 094856 6798
5635 508525 618430 803884 8236

8 881730 290562 680457 9578
14001 015424 827959 7477
22 075782 866201 4667
34814 854699 3858
54 916435 1159
86641 6788

136 7211
2157
3

$\frac{1}{171.5^{171}}$	204678	362573	099415	204678	362573	099415	204678	362573
	714285	714285	714285	714285	714285	714285	714285	714285
	027932	960893	854748	603351	955307	262569	832402	234636
	928961	748633	879781	420765	027322	404371	584699	453551
	844919	786096	256684	491978	609625	668449	197860	962566
	670157	068062	827225	130890	052356	020942	408376	963350
$\frac{1}{195.5^{195}}$	564102	564102	564102	564102	564102	564102	564102	564102
	814070	351758	793969	849246	231155	778894	472361	809045
	635467	980295	566502	463054	187192	118226	600985	221674
	995169	082125	603864	734299	516908	212560	386473	429951
	094786	729857	819905	213270	142180	094786	729857	819905
	110548	837209	302325	581395	348837	209302	325581	395348
$\frac{1}{219.5^{219}}$	592612	003652	968036	529680	365296	803652	968036	529680
	038197	539220	089686	098654	708520	179372	197309	417040
	942065	325471	338008	810572	687224	669603	524229	074889
	867219	732148	100389	458008	658008	658008	658008	658008
	845237	976225	540161	293377	361702	127659	574468	085106
	428610	081502	346456	488059	874008	368200	836820	083682
$\frac{1}{243.5^{243}}$	074557	615206	446490	884613	309036	299588	477366	255144
	061455	012148	956544	111967	358925	317057	813765	182186
	583325	446298	013018	431207	368526	881614	746007	968127
	550559	464702	875615	796870	481879	217237	868556	850196
	050319	028037	060900	583958	004465	663014	027221	510404
	049855	711806	914669	342973	354361	409014	270010	952828
$\frac{1}{267.5^{267}}$	043931	757616	211047	538799	712312	791314	281665	994790
	475056	707183	961790	994496	587590	774997	968491	246173
	149938	853048	127148	482091	686255	924945	596796	864743
	256437	179553	194179	015527	313053	593573	390905	342725
	216698	493134	107935	977076	082659	177117	212585	512879
	170360	003755	021338	234879	512370	132666	894334	002509
$\frac{1}{291.5^{291}}$	646487	385957	815483	843702	600247	698848	524528	790975
	877093	574667	464267	421280	094680	255351	131772	951203
	406414	676144	625562	321815	532457	154115	470682	932551
	5378	312808	803923	660114	708088	209579	303106	187177
	8	493179	315010	235147	959643	261120	534352	266708
		13414	307651	231599	693497	674501	165294	128081
$\frac{1}{315.5^{315}}$		21	190347	578580	457166	617278	831047	143994
			33479	420625	719593	767947	048686	043136
			52	903703	676059	692443	220351	855592
				83610	501711	888835	029529	901648
				132	160164	639456	913859	365693
					208931	412516	586213	671403

099415	204678	362573	099415	204678	362573	099415	204678	362573	0994
714285	714285	714285	714285	714285	714285	714285	714285	714285	7142
871508	379888	268156	424581	005586	592178	770949	720670	391061	4525
912568	306010	928961	748633	879781	420765	027322	404371	584699	4535
844919	786096	256684	491978	609625	668449	197860	962566	844919	7860
785340	314136	125654	450261	780104	712041	884816	753926	701570	6806
564102	564102	564102	564102	564102	564102	564102	564102	564102	5641
226130	653266	331658	291457	286432	160804	020100	502512	562814	0703
876847	290640	394088	669950	738916	256157	635467	980295	566502	4630
690821	256038	647342	995169	082125	603864	734299	516908	212560	3864
213270	142180	094786	729857	819905	213270	142180	094786	729857	8199
837209	302325	581395	348837	209302	325581	395348	837209	302325	5813
365296	803652	968036	529680	365296	803652	968036	529680	365296	8036
358744	394618	834080	717488	789237	668161	434977	578475	336322	8699
867841	409691	629955	947136	563876	651982	378854	625550	660792	9515
658008	658008	658008	658008	658008	658008	658008	658008	658008	6580
382978	723404	255319	148936	170212	765957	446808	510638	297872	3404
008368	200836	820083	682008	368200	836820	083682	008368	200836	8200
032921	810699	588477	366255	144032	921810	699588	477366	255144	0329
234817	813765	182186	234817	813765	182186	234817	813765	182186	2348
490039	840637	450199	203187	250996	015936	254980	079681	274900	3984
078431	372549	019607	843137	254901	960784	313725	490196	078431	3725
942084	942084	942084	942084	942084	942084	942084	942084	942084	9420
562007	604562	737642	585551	330798	479087	452471	482889	733840	3041
075876	002996	254681	647940	074906	367041	198501	872659	176029	9625
336975	698260	073800	738007	380073	800738	007380	073800	738007	3800
057305	136955	511156	363636	363636	363636	363636	363636	363636	3636
759660	266165	807974	583512	544802	867383	512544	802867	383512	5448
833141	739727	266490	034820	070671	378091	872791	519434	628975	2650
519123	507246	510474	796821	486160	278745	644599	303135	888501	7421
781344	266372	947070	824834	022084	002749	140893	470790	378006	8728
655334	894543	807607	309071	331256	550209	084745	762711	864406	7796
732860	595552	590893	614213	651064	726059	192936	454849	498327	7591
995871	288808	291615	457112	342609	469851	309300	002640	264026	4026
612027	356354	443842	915874	944832	889482	032295	598180	065146	5798
695402	661856	724446	352541	086086	501335	413422	069446	386006	4308
074449	626554	094939	950809	601410	909977	982545	139116	687370	4025
592518	879660	762582	601050	808900	034791	940135	431818	541725	5005
622033	503517	581588	923094	663569	233986	866273	204719	505212	6832
227116	412582	929315	489772	034624	258654	814717	094777	367095	7000
481427	272831	007216	368169	935735	696109	148637	643456	155644	9077
197814	220548	332243	050115	172531	240670	625089	905958	132477	7001

$\frac{1}{171.5^{171}}$	152046	783625	730994	152046	783625	730994	152046	783625
	857142	857142	857142	857142	857142	857142	857142	857142
	139664	804469	273743	016759	776536	312849	162011	173184
	519125	683060	109289	617486	338797	814207	650273	224043
	962566	844919	786096	256684	491978	609625	668449	197860
	282722	513089	005235	602094	240837	696335	078534	031413
$\frac{1}{195.5^{195}}$	025641	025641	025641	025641	025641	025641	025641	025641
	517587	939698	492462	311557	788944	723618	090452	261306
	541871	921182	266009	852216	748768	472906	403940	886699
	734299	516908	212560	386473	429951	690821	256038	647342
	052132	701421	800947	867298	578199	052132	701421	800947
	953488	372093	023255	813953	488372	093023	255813	953488
$\frac{1}{219.5^{219}}$	529680	365296	803652	968036	529680	365296	803652	968036
	551569	506726	457399	103139	013452	914798	206278	026905
	418502	202643	171806	167400	881057	268722	466960	352422
	086580	086580	086580	086580	086580	086580	086580	086580
	255319	148936	170212	765957	446808	510638	297872	340425
	836820	083682	008368	200836	820083	682008	368200	836820
$\frac{1}{243.5^{243}}$	218106	995884	773662	551440	329218	106995	884773	662551
	178137	651821	862348	178137	651821	862348	178137	651821
	063745	019920	318725	099601	593625	498007	968127	490039
	490196	078431	372549	019607	843137	254901	960784	313725
	849420	849420	849420	849420	849420	849420	849420	849420
	825095	057034	220532	319391	634980	988593	155893	536121
$\frac{1}{267.5^{267}}$	468164	794007	490636	704119	850187	265917	602996	254681
	738007	380073	800738	007380	073800	738007	380073	800738
	363636	363636	363636	363636	363636	363636	363636	363636
	028673	835125	448028	673835	125448	028673	835125	448028
	176678	445229	681978	798586	572438	162544	169611	307420
	602787	456445	993031	358885	017421	602787	456445	993031
$\frac{1}{291.5^{291}}$	522336	769759	450171	821305	841924	398625	429553	264604
	610169	491525	423728	813559	322033	898305	084745	762711
	973244	147157	190635	451505	016722	408026	755852	842809
	402640	264026	402640	264026	402640	264026	402640	264026
	045602	605863	192182	410423	452768	729641	693811	074918
	681672	025723	472668	810289	389067	524115	755627	009646
$\frac{1}{315.5^{315}}$	396825	396825	396825	396825	396825	396825	396825	396825
	732915	360501	567398	119122	257053	291536	050156	739811
	677789	721362	229102	167182	662538	699690	402476	780185
	449932	360024	464831	804281	345565	749235	474006	116207
	651466	479186	600604	229607	250755	287009	063444	108761
	288131	989992	170816	955223	880597	014925	373134	328358

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829596 412556 053811 659192 825112 107623 318385 650224 215246 6367
907488 986784 140969 162995 594713 656387 665198 237885 462555 0660
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440329 218106 995884 773662 551440 329218 106995 884773 662551 4403
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951070 336391 437308 868501 529051 987767 584097 859327 217125 3822
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$\frac{1}{171.5^{171}}$	941520	467836	257309	941520	467836	257309	941520	467836
	428571	428571	428571	428571	428571	428571	428571	428571
	698324	022346	368715	083798	882681	564245	810055	865921
	437158	469945	355191	256830	601092	896174	863387	978142
	197860	962566	844919	786096	256684	491978	609625	668449
	900523	560209	424083	769633	507853	403141	361256	544502
$\frac{1}{195.5^{195}}$	410256	410256	410256	410256	410256	410256	410256	410256
	396984	924623	115577	889447	236180	904522	613065	326633
	167487	684729	064039	408866	995073	891625	615763	546798
	386473	429951	690821	256038	647342	995169	082125	603864
	478672	985781	990521	327014	218009	478672	985781	990521
	534883	720930	232558	139534	883720	930232	558139	534883
$\frac{1}{219.5^{219}}$	968036	529680	365296	803652	968036	529680	365296	803652
	713004	484304	932735	426008	968609	865470	852017	937219
	792951	541850	220264	317180	616740	088105	726872	246696
	800865	800865	800865	800865	800865	800865	800865	800865
	021276	595744	680851	063829	787234	042553	191489	361702
	368200	836820	083682	008368	200836	820083	682008	368200
$\frac{1}{243.5^{243}}$	292181	069958	847736	625514	403292	181069	958847	736625
	481781	376518	218623	481781	376518	218623	481781	376518
	019920	318725	099601	593625	498007	968127	490039	840637
	313725	490196	078431	372549	019607	843137	254901	960784
	208494	208494	208494	208494	208494	208494	208494	208494
	912547	528517	110266	159695	817490	494296	577946	768060
$\frac{1}{267.5^{267}}$	704119	850187	265917	602996	254681	647940	074906	367041
	380073	800738	007380	073800	738007	380073	800738	007380
	363636	363636	363636	363636	363636	363636	363636	363636
	286738	351254	480286	738351	254480	286738	351254	480286
	007067	137809	187279	151943	462897	526501	766784	452296
	313588	850174	216027	874564	459930	313588	850174	216027
$\frac{1}{291.5^{291}}$	594501	718213	058419	243986	254295	532646	048109	965635
	864406	779661	016949	152542	372881	355932	203389	830508
	528428	093645	484949	832775	919732	441471	571906	354515
	264026	402640	264026	402640	264026	402640	264026	402640
	530944	625407	166123	778501	628664	495114	006514	657980
	787781	350482	315112	540192	926045	016077	170418	006430
$\frac{1}{315.5^{315}}$	253968	253968	253968	253968	253968	253968	253968	253968
	222570	532915	360501	567398	119122	257053	291536	050156
	727554	179566	563467	492260	061919	504643	962848	297213
	629969	418960	244648	318042	813455	657492	354740	061162
	694864	048338	368580	060422	960725	075528	700906	344410
	343283	582089	552238	805970	149253	731343	283582	089552

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720930 232558 139534 883720 930232 558139 534883 720930 232558 1395

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198501 872659 176029 962546 816479 400749 063670 411985 018726 5917
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874564 459930 313588 850174 216027 874564 459930 313588 850174 2160

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079510 703363 914373 088685 015290 519877 675840 978593 272171 2538
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238805 970149 253731 343283 582089 552238 805970 149253 731343 2835

$\frac{1}{339.5^{339}}$	330 345832 179617 140200 522389 444239 721098 826 188262 244262 1 306836 818227 2067 379034 3 270950
$\frac{1}{363.5^{363}}$	5175 8
$\frac{1}{387.5^{387}}$	
$\frac{1}{411.5^{411}}$	
$\frac{1}{435.5^{435}}$	

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960975 276821 022964 152103 017985 748813 835398 141076 261758 9304
131895 447085 810384 497655 833957 467032 489718 196045 150503 1093
672386 954356 392034 257366 764662 083123 327170 361936 918232 5508

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12964 461481 188168 330775 353806 535208 172683 013100 173151 2000
20 521878 227288 791256 395333 385491 465523 479030 870034 0868
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51 438650 386937 962418 118851 305670 514105 848223 5906

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323 590210 286580 023766 405911 278572 9165
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812 108069 766890 170702 598658 5169

1 286726 946550 362236 402754 8574
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3 231127 981103 649476 5000
5120 917727 025736 6644
8 116714 561243 6032
12866 216678 0548

20 396650 6234
32337 2866
51 2724
813
1

$\frac{1}{339.5^{339}}$	727700	409282	111514	920023	598820	058997	050147	492625
	454100	013708	439117	450998	894460	641399	416909	620991
	186184	467111	017842	615726	536580	057636	887608	069164
	137256	323692	706658	422279	918441	906689	458689	458689
	389305	586341	931898	758788	598316	047816	329014	084507
	805139	625551	649630	413635	074996	778593	759540	055710
$\frac{1}{363.5^{363}}$	510351	714052	112582	776059	482058	066527	890510	963658
	399007	117916	952226	125548	597676	237942	886645	255497
	229970	611804	961817	647387	930287	211555	040601	180846
	062230	694813	779800	893214	638601	115970	077525	602295
	305639	415347	990152	719092	160377	732637	419647	797787
	859617	075042	994833	495062	291086	300410	107914	554633
$\frac{1}{387.5^{387}}$	128484	685642	341982	516707	426800	975929	951716	098292
	467166	132269	436670	474614	693705	051571	089069	316133
	957114	580081	893062	230503	592284	511089	273097	017124
	826698	988507	798888	258971	624737	653661	675239	592267
	420505	619439	859500	769887	164975	763072	202514	821230
	177393	469344	999561	194340	106250	556196	631341	969426
$\frac{1}{411.5^{411}}$	847124	862839	993828	988442	224518	711343	540745	328200
	139324	022433	261638	414319	999052	634950	794005	768982
	538206	470527	197340	639396	440284	894867	797916	992435
	104871	899805	771709	449561	823578	172561	511517	076954
	189063	647076	788164	620504	598225	287370	467519	894046
	253344	705994	623808	988558	535363	126488	008128	560537
$\frac{1}{435.5^{435}}$	174886	221860	353776	042939	103370	083705	807196	334380
	375821	687495	250128	082291	311198	053709	018774	051591
	833729	971000	669669	729040	635252	788968	228475	816916
	018707	265779	519630	116116	205821	626793	782282	648006
	289292	637331	453464	389044	448581	826225	017545	650886
	2044	733114	501927	076710	185657	355265	503236	617454
$\frac{1}{459.5^{459}}$	3	243062	543262	315712	080643	046959	985373	325179
		5144	071558	902472	265555	127977	726594	510086
		8	160017	582087	690480	349547	764239	531505
			12945	148911	541236	362881	490635	753244
			20	537819	409973	633101	194718	617060
				32586	101777	828728	928826	693421
$\frac{1}{483.5^{483}}$				51	705980	129457	428263	049229
					82050	064566	826900	537339
					130	210611	630288	229936
						206653	447468	190774
						327	995050	891396
							520618	784556

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253644	314868	804664	723032	069970	845481	049562	682215	743440	2332
265129	682997	118155	619596	541786	743515	850144	092219	020172	9106
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042253	521126	760563	380281	690140	845070	422535	211267	605633	8028
306406	685236	768802	228412	256267	409470	752089	136490	250696	3788
402203	856749	311294	765840	220385	674931	129476	584022	038567	4931
800544	959128	065395	095367	847411	444141	689373	297002	724795	6403
437489	164420	485175	202156	334231	805929	919137	466307	277628	0323
867854	116181	333333	333333	333333	333333	333333	333333	333333	3333
275780	243983	400527	704485	488126	649076	517150	395778	364116	0949
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194638	569646	056647	169322	997416	020671	834625	322997	416020	6718
152242	762665	792425	258125	945780	051150	895140	664961	636828	6445
488354	539423	604353	775294	895168	810126	582278	481012	658227	8481
726006	616714	074481	081669	138781	320020	050125	313283	208020	0501
034035	440754	616042	552661	383568	729515	386600	496277	915632	7543
852889	302339	554241	828594	486634	214046	170813	955773	955773	9557
707461	317551	541405	650313	335108	749878	800161	640019	464720	1946
710325	847138	366008	743025	653130	524129	928431	292275	847710	8433
810309	442392	601133	722685	844949	113766	162941	475842	651940	0477
442002	911229	739952	245975	623145	281054	063441	219776	370954	7532
095471	539977	330885	245152	403516	966571	937681	819713	219315	8364
383509	109410	933903	621344	520004	832463	020760	613037	652137	9038
107079	696280	114436	827442	021105	736396	474710	612686	783367	6190
636798	468037	838176	874787	926302	254197	111495	213180	933943	5623
112789	361724	491597	145455	645687	211519	973027	345909	115774	2707
778838	355927	495122	246211	854500	364866	947107	118082	282732	1270
595228	880692	149322	641752	751038	444924	507407	031066	191682	0621
241246	411341	335065	826853	381945	383168	917636	362447	510689	9291
753132	085811	452052	130548	909067	660651	300592	678152	204330	6803
419029	590073	045206	019621	328550	365637	110831	868818	218096	8908
507535	796831	533430	168349	754775	567689	216213	499461	285944	2530
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304643	082882	517532	704939	862874	734377	445650	130036	974475	6980
640566	865851	755142	640617	441118	548639	095738	401041	394782	0491
478975	839432	688996	151800	764403	464297	467915	059856	228001	9895
721850	826547	666492	928595	711767	414778	663415	204842	416618	0696
242589	136790	317600	267392	997512	442300	601903	326125	485154	8448
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980963	245460	603967	850923	511227	058423	325599	528193	196005	3904
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$\frac{1}{339.5^{339}}$	793510	324483	775811	209439	528023	598820	058997	050147
	361516	034985	422740	524781	341107	871720	116618	075801
	628242	074927	953890	489913	544668	587896	253602	305475
	894586	894586	894586	894586	894586	894586	894586	894586
	169014	084507	042253	521126	760563	380281	690140	845070
	300835	654596	100278	551532	033426	183844	011142	061281
$\frac{1}{363.5^{363}}$	129476	584022	038567	493112	947658	402203	856749	311294
	269754	768392	370572	207084	468664	850136	239782	016348
	450134	770889	487870	619946	091644	204851	752021	563342
	333333	333333	333333	333333	333333	333333	333333	333333
	868073	878627	968337	730870	712401	055408	970976	253298
	950391	644908	616187	989556	135770	234986	945169	712793
$\frac{1}{387.5^{387}}$	346253	229974	160206	718346	253229	974160	206718	346253
	012787	723785	166240	409207	161125	319693	094629	156010
	012658	227848	101265	822784	810126	582278	481012	658227
	253132	832080	200501	253132	832080	200501	253132	832080
	424317	617866	004962	779156	327543	424317	617866	004962
	739557	739557	739557	739557	739557	739557	739557	739557
$\frac{1}{411.5^{411}}$	472019	464720	194647	201946	472019	464720	194647	201946
	734939	759036	144578	313253	012048	192771	084337	349397
	326968	973747	016706	443914	081145	584725	536992	840095
	104018	912529	550827	423167	848699	763593	380614	657210
	800299	765807	962529	274004	683840	749414	519906	323185
	967126	600464	037122	969837	587006	960556	844547	563805
$\frac{1}{435.5^{435}}$	770739	610353	287356	321839	080459	770114	942528	735632
	300174	111090	674004	555808	656036	446469	248291	571753
	859607	318951	760924	200451	467268	623024	830699	774266
	763603	780017	165566	315600	178970	917225	950782	997762
	225831	772557	579327	745075	204541	019955	654101	995565
	780827	604850	719888	445935	925862	850109	890109	890109
$\frac{1}{459.5^{459}}$	234022	750536	669551	369909	894017	490533	507625	272331
	242537	940190	052116	886665	360315	694265	762004	319654
	550805	293589	063791	452226	213488	055388	248557	800428
	345706	075828	810506	295059	667572	650265	363268	200400
	464703	419155	251771	784303	067295	753156	294690	018770
	242490	969934	359063	353979	270002	389921	500592	827587
$\frac{1}{483.5^{483}}$	702874	213414	819239	722887	142261	966525	125958	704644
	869402	836123	464008	846936	031177	700303	348290	227693
	063137	757005	921391	355791	308666	993205	858185	311090
	102623	032367	482528	979897	191216	340989	621256	950263
	213100	756396	062216	759423	003157	201086	300160	391792
	823307	633486	891880	862546	169633	639581	207359	936494

492625 368731 563421 828908 554572 271386 430678 466076 696165 1917
749271 137026 239067 055393 586005 830903 790087 463556 851311 9533
504322 766570 605187 319884 726224 783861 671469 740634 005763 6887
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773841 961852 861035 422343 324250 681198 910081 743869 209809 2643
318059 299191 374663 072776 280323 450134 770889 487870 619946 0916
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153034 300791 556728 232189 973614 775725 593667 546174 142480 2110
733681 462140 992167 101827 676240 208877 284595 300261 096605 7441

229974 160206 718346 253229 974160 206718 346253 229974 160206 7183
230179 028132 992327 365728 900255 754475 703324 808184 143222 5063
848101 265822 784810 126582 278481 012658 227848 101265 822784 8101
200501 253132 832080 200501 253132 832080 200501 253132 832080 2005
779156 327543 424317 617866 004962 779156 327543 424317 617866 0049
739557 739557 739557 739557 739557 739557 739557 739557 739557 7395

472019 464720 194647 201946 472019 464720 194647 201946 472019 4647
590361 445783 132530 120481 927710 843373 493975 903614 457831 3253
465393 794749 403341 288782 816229 116945 107398 568019 093078 7589
401891 252955 082742 316784 869976 359338 061465 721040 189125 2955
011709 601873 536299 765807 962529 274004 683840 749414 519906 3231
104408 352668 213457 076566 125290 023201 856148 491879 350348 0278

183908 045977 011494 252873 563218 390804 597701 149425 287356 3218
986332 574031 890660 592255 125284 738041 002277 904328 018223 2346
365688 487584 650112 866817 155756 207674 943566 591422 121896 1625
863534 675615 212527 964205 816554 809843 400447 427293 064876 9574
410199 556541 019955 654101 995565 410199 556541 019955 654101 9955
890109 890109 890109 890109 890109 890109 890109 890109 890109 8901

154684 095860 566448 801742 919389 978213 507625 272331 154684 0958
427645 788336 933045 356371 490280 777537 796976 241900 647948 1641
265524 625267 665952 890792 291220 556745 182012 847965 738758 0299
169851 380042 462845 010615 711252 653927 813163 481953 290870 4883
150669 473684 210526 315789 473684 210526 315789 473684 210526 3157
192723 400417 536534 446764 091858 037578 288100 208768 267223 3820

022410 979739 296066 252587 991718 426501 035196 687370 600414 0786
940247 472700 498004 106776 180698 151950 718685 831622 176591 3757
466635 928372 155250 600407 331975 560081 466395 112016 293279 0224
419536 543808 745788 211861 979797 979797 979797 979797 979797 9797
802862 270426 245544 417362 314004 008016 032064 128256 513026 0521
646866 412001 408179 806486 723800 200397 614314 115308 151093 4393

$\frac{1}{507.5^{507}}$	826 418141 1 311918 2082 3
$\frac{1}{531.5^{531}}$	
$\frac{1}{555.5^{555}}$	
$\frac{1}{579.5^{579}}$	

638473 687103 921659 159630 555194 734086 574974 936989 864487 4088
584143 111262 189239 236615 053437 131053 407102 973911 714634 1921
766280 379432 559157 130096 808675 126598 736438 150274 699452 2037
306742 610852 894853 074133 332890 844516 989130 684076 736709 7275
5250 323258 226087 736123 824702 930319 860244 309980 989143 7165
8 336756 171695 617111 173465 866057 099922 300642 489737 6004

13238 329197 690667 322300 313405 384833 624263 468450 7471
21 022961 656743 908330 890366 858345 709620 886435 1322
33387 115358 391067 775959 469444 793928 451723 1697
53 025871 611558 852394 083695 118214 150822 7735
84220 982186 695303 400328 911003 116004 0856
133 775324 155709 128014 460731 233987 5259

212497 884280 492193 256844 289470 0601
337 563723 150406 203241 641733 5409
536264 642958 655964 794537 0630
851 970353 398866 478107 4408
1 353603 335557 708702 1700
2150 699143 244387 2527

3 417345 788920 2699
5430 238660 1299
8 629176 5283
13713 2362
21 7936
346

$\frac{1}{507.5^{507}}$	858499	798783	886095	829818	889856	649217	228709	434471
	449866	957019	126200	393223	383724	954430	225080	096072
	194130	895580	696772	002799	028035	987422	800295	195119
	835545	209745	584767	129345	484391	332665	966064	437843
	540829	515759	412492	525094	088891	469527	047453	575352
	971773	370282	329177	179781	781278	148731	879000	586625
$\frac{1}{531.5^{531}}$	652339	358391	378643	996606	387943	453361	602109	930875
	519468	836483	905262	235400	965957	377117	712181	593639
	091051	327131	781489	618689	245318	848821	545012	295814
	940278	678940	181304	524212	076620	926289	546409	610688
	045676	259810	353253	231024	927700	490421	865370	970145
	087497	596846	798586	510395	268632	891958	651935	703580
$\frac{1}{555.5^{555}}$	852993	761948	432680	421382	999042	931094	686031	615344
	900617	993668	354576	422565	631669	320434	368660	458093
	178712	456009	834771	462082	313856	065790	757547	655264
	930626	074392	193402	402351	047175	170271	718367	546609
	006623	229377	738350	008160	092591	939254	764453	420382
	000219	219099	755655	228812	965322	768688	179396	181991
$\frac{1}{579.5^{579}}$	006632	472679	743998	623161	499012	257249	038212	512068
	108678	806728	457143	808446	821291	054811	518883	362043
	972416	653476	859122	357316	046328	620606	351251	813288
	021500	666194	493174	429302	861642	490423	813003	546028
	742063	077361	266407	976034	199640	284267	134046	346475
	370247	819782	383849	115848	388243	835643	776814	043609
$\frac{1}{603.5^{603}}$	550516	161708	921122	190700	877438	296670	117737	476914
	875	021404	969962	271317	278758	735533	158697	846981
	1	390868	720960	437574	309887	283934	451397	262436
		2210	915872	538087	435195	684241	909462	904006
		3	514606	168945	844969	681023	092146	868332
			5587	264766	812142	629168	676196	568633
$\frac{1}{627.5^{627}}$			8	882592	535180	771567	392881	072949
				14122	055200	147939	835829	696184
				22	452955	795384	818989	375844
					35699	848338	201840	521448
					56	764424	480524	979392
						90261	576360	995515
$\frac{1}{651.5^{651}}$						143	531157	986025
							228247	410928
							362	979190
								577262
								918
								1

185190 923251 240105 134335 819556 833138 619329 388560 157790 9270
882632 929309 082986 249089 967156 212334 720250 489236 790606 6536
512988 040161 171080 096227 681470 188192 630810 246213 592233 0097
503812 528217 905211 888245 263216 823574 317394 581200 154142 5818
170641 617444 420934 011380 494964 771033 070962 073537 722003 8240
910239 834735 251406 902430 214797 317875 522720 647178 626880 0242

033837 126607 624790 934651 843987 037850 155632 312711 301352 5145
759679 902846 291286 023136 598517 105396 929892 009743 700040 4282
759989 398880 958117 515465 315265 919558 849298 678219 555857 5781
601563 563273 655503 279089 018946 381821 413538 922983 603213 5756
824967 163480 387846 254568 322741 609902 242128 121784 804669 9670
892243 214630 631643 272308 526671 621519 031655 735993 078150 7207

643089 372284 717774 516592 553508 312975 731852 806660 993689 5453
785407 984548 459444 335904 712321 136640 290608 023778 738752 0506
154674 367498 010909 639456 542050 976953 128021 171965 306756 5538
985803 405062 155570 065966 882633 297213 473329 314764 914194 5790
284727 006740 932377 466136 331271 322114 241791 601321 111611 4839
063052 741901 493070 991396 629829 999095 449689 218794 725160 9882

103243 538035 491146 157706 536959 315369 892597 088223 300772 2765
190207 280983 938385 931047 168672 108250 014868 785493 190507 4364
098616 397532 711784 883128 587391 716086 159478 483139 877424 3702
832795 635398 583287 492998 704516 545346 443521 120459 162390 6547
840108 053029 971261 103619 125336 119067 696801 669868 077620 0951
090149 887924 014244 808966 019043 939875 379711 778279 990667 6032

419489 219987 705431 595729 540684 331197 307734 520345 445345 0345
428388 670839 281941 022081 647217 219510 278686 165181 596846 2419
969497 955936 365156 499379 125525 003868 393424 975456 013693 7104
111189 237726 379496 873160 639078 232916 718278 719115 456583 7186
054948 966413 445488 570150 549384 253604 507351 835637 495330 0135
059497 947762 978934 850529 497759 406363 996635 764459 093700 4411

941680 554313 126215 952566 200643 327872 828758 925885 187918 0232
442759 895296 492754 706566 742333 574305 106215 231306 573725 0703
516241 591165 813132 417561 810681 984215 147142 102200 830105 2485
917102 506191 900572 993014 464475 200150 176196 394954 360005 3003
114110 179785 895177 520727 928442 425263 815770 051623 952313 6382
917476 037948 939302 872694 474331 965327 838351 876706 508071 3141

434835 286013 033397 797747 793118 016053 006725 440649 411024 8163
616935 762494 520878 759001 731452 384313 772231 763693 099887 8220
672519 800727 001908 772290 491372 628374 447394 990725 873093 6000
833552 194385 952565 328219 461680 397133 270011 060751 465098 9289
081579 958272 570642 400749 887863 494100 868025 228985 375043 7435
460173 863087 136344 842876 423666 658600 453720 352495 340077 8639

$\frac{1}{675.5^{675}}$	
$\frac{1}{699.5^{699}}$	
$\frac{1}{723.5^{723}}$	
$\frac{1}{747.5^{747}}$	

2322 433569 496814 192330 832782 886703 219921 650622 872588 3075
3 694003 321143 680895 018113 999289 601586 915143 847868 0344
5875 790934 246698 278693 527157 874411 660358 143889 2003
9 346527 413311 196330 358495 601346 662390 741455 0831
14867 876892 491558 619869 838444 284010 564259 0556
23 651690 204803 837712 414522 854676 837524 9565

37626 150940 975490 037489 198017 740548 3944
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95233 012078 952165 336187 652759 3573
151 515588 275261 166565 816417 4421
241068 717792 919025 294087 7713
383 564135 125312 051371 9560

610307 304354 300116 0419
971 118967 918919 3593
1 545288 075900 5294
2459 005351 8003
3 913112 7113
6227 2738

9 9102
157

$\frac{1}{239}$	·004184 100418 410041 841004 184100 418410 041841 004184
	256472 314424 647365 705207 110882 995239
	43 669315 244039 189749 849750
	9265 821624 155095
	2 171634
$\frac{1}{25.239^{2\,5}}$	

100418 410041 841004 184100 418410 041841 004184 100418 410041 8410
795983 130970 285940 838406 710850 935276 679625 652677 323781 8220
669149 755829 095479 748990 815827 076863 032232 548380 568606 8866
706714 424931 650304 018923 292878 006112 668284 847390 356820 3447
649910 958401 251023 219679 525542 528236 062922 977188 324769 4641
538 796524 135423 076341 975321 274864 130207 477093 742005 1822

138711 499836 853406 239112 405817 269585 125596 3247
36 649062 916865 436937 862057 588749 5669
9870 867649 291507 134389 7394
2 698211 201145 6677
746 2806

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	189053	275836	401771	021551	025640	430246	795106	737638
	082963	667706	802354	108595	622837	057561	776273	597828
	821519	875801	682004	578809	159561	114088	581412	034972
	732955	061617	594270	270867	066178	545649	072147	909775
	787132	788863	162170	809010	452908	675354	266227	889721
$\frac{1}{25.239^{25}}$	718039	720350	609290	495947	360548	739205	218773	753267
	149692	084234	413607	006610	210850	766605	485510	415444
	080226	318411	827881	191857	793653	399222	706317	303084
	795012	403678	044738	345780	861250	921034	742516	869742
	900052	967530	133249	258828	827639	121920	201196	843390
	2083	924322	522022	514129	777510	922082	592366	427604
$\frac{1}{49.239^{49}}$			586552	342435	007962	808664	794839	674440
				166	201668	803033	645404	091452
						47363	609332	586656
							13	564325
$\frac{1}{73.239^{73}}$								

004184 100418 410041 841004 184100 418410 041841 004184 100418 4100
335808 357386 545495 569466 345656 953541 462710 525538 407816 4321
521656 991641 005641 288498 294328 779646 432527 082945 624038 9800
990111 361608 135754 049268 470570 849483 070794 198149 019791 2286
199471 532427 971439 708680 128879 843332 956085 390928 121162 7638
469402 829866 899384 896498 942939 060192 620940 872748 818452 3434

018955 208790 713257 488947 383020 326846 090637 946732 589376 2425
951531 968692 316072 729742 194813 179589 094707 311877 838925 2359
001803 020434 742246 518340 305081 613382 002086 793297 921684 3145
473116 668941 428649 639365 603627 232249 368641 841462 690287 9957
939480 343394 045655 571482 510280 421295 163743 255983 303844 3208
957763 129330 736173 900047 210402 607534 902335 853342 926868 2993

037567 960637 831380 061299 093622 569026 914333 140058 273565 3794
295686 338099 939116 003137 508460 781995 772776 086942 453978 4464
612783 116434 886172 621975 573870 376431 365725 435454 470975 1455
632956 476936 919751 663815 299394 588583 895428 731248 965887 4894
3901 423375 474509 422118 662956 846425 467141 688665 160591 1334
1 126408 045586 792619 968694 447910 373379 893324 6754

326 309990 542751 021243 603584 405107 7466
94813 657876 072742 480171 3741
27 623900 709038 0336
8067 8811

$\frac{1}{239}$	418410	041841	004184	100418	410041	841004	184100	418410
	681663	960042	112076	890322	553494	820072	719173	665090
	223272	718888	761000	781751	549058	592961	388244	798645
	381744	845896	060967	639454	813802	165320	557387	766982
	983975	796570	792573	266774	791227	606848	280166	391833
	864455	535178	107608	234802	358623	682452	682005	088989
$\frac{1}{25.239^{25}}$	546733	031741	453773	338100	703809	320940	573018	808629
	545054	750974	869624	903635	859154	673665	993601	178634
	994839	054023	740677	708918	426551	180744	244976	174266
	241869	314028	890916	174355	269790	252415	816438	020204
	307605	587832	191876	514102	511128	399368	952766	196849
	295040	685781	240151	572562	956859	379421	702376	569997
$\frac{1}{49.239^{49}}$	266182	784337	543422	609557	730123	722326	282456	942251
	525991	471367	056192	318404	976111	420704	178077	397588
	502409	607449	186490	252090	169562	358548	994151	247713
	568278	030986	756504	391598	730589	871753	583180	351205
	460263	949531	378176	123710	895992	149853	052757	716786
	293037	061422	851279	306402	484711	247169	841235	824739
$\frac{1}{73.239^{73}}$	093858	188458	737368	130977	859289	798057	536471	520030
	292551	254029	392811	061709	559822	229767	950177	220800
	829672	249686	687998	053300	282071	465197	521477	340912
	835895	895965	234854	939097	050889	600055	527522	001554
	23615	481721	043857	932688	486326	886565	064506	629124
		6	926474	876014	033786	349945	930251	230369
$\frac{1}{97.239^{97}}$				2035	316126	918186	233776	700876
						599088	013643	119952
							176	616429
$\frac{1}{121.239^{121}}$								

041841 004184 100418 410041 841004 184100 418410 041841 004184 1004
468320 750658 563736 725380 360325 583791 477042 621968 366304 9267
543788 571419 509931 123404 068339 936764 370264 484705 927492 9020
916388 374855 923285 624078 077596 117209 627052 787214 653628 7536
134656 246102 489834 708510 076821 572596 438277 926779 580802 0125
260985 027112 050289 905612 337456 644075 580368 238355 747976 9474

814547 175271 878723 326613 331572 550032 198955 741176 581406 5768
383387 700078 030129 910683 270714 757455 506353 046922 573569 6506
789014 480119 995408 713951 697537 543575 954141 006966 629134 3515
580612 265575 461341 893266 953585 958390 711345 047259 874444 1403
086829 927895 903929 122317 179815 616207 434844 785655 252409 4234
453130 992806 717673 406606 086812 084902 723538 507965 193538 5162

900106 551235 424079 459911 952807 762754 942690 471767 889805 9759
830893 136653 567305 117935 244398 132423 255405 702269 124954 7134
001895 118570 108340 254455 237362 760878 133657 589946 575445 3920
543666 238436 915670 448038 025085 629399 416247 677997 833311 6835
012027 461513 751612 222407 262280 416776 529524 447661 952510 3842
464028 429359 043342 720401 379948 679744 377336 528417 124118 0089

555054 290325 718242 651435 416512 613785 685675 419287 667293 6399
305852 089153 330500 937189 314126 199894 996717 308471 474953 9987
303290 672829 818186 703351 786678 251405 515959 903326 899929 4901
934241 027268 335501 502911 435710 453082 263542 094877 287628 1824
226206 674109 760176 621081 112389 644896 887935 932955 357067 9631
321617 063527 068649 453237 151859 175317 443636 440599 258894 7970

925496 618440 840869 139465 981684 736418 140596 959575 294898 9286
146397 459943 617591 815087 041852 069616 469636 979573 490044 7878
747705 222289 647319 993472 477906 143203 307121 416883 063304 8131
52143 754536 608695 124573 311582 932098 831847 137805 363073 0098
15 415540 244624 412088 726447 915162 398186 978199 7196
4563 097277 795328 658994 058790 145363 9382

1 352286 196422 951728 638669 9535
401 192096 186255 4026
119146 4391

$\frac{1}{239}$	184100	418410	041841	004184	100418	410041	841004	184100
	377604	753878	307533	782827	311140	750659	818937	879406
	281158	244843	981328	164208	916218	889404	086935	790057
	723684	669157	695695	819664	880637	273404	134643	627933
	158460	300699	238995	069903	606105	647573	483852	775245
	834463	960125	237990	538013	828287	434491	521242	970001
$\frac{1}{25.239^{25}}$	340291	200933	150197	117306	185303	783378	009462	913175
	310423	291882	210229	337078	747455	183495	724188	389299
	802170	631904	184137	167601	269199	633031	243313	637026
	429339	050554	145211	319025	851130	539480	109083	294362
	227335	310030	772401	516774	392893	543984	174700	342418
	291722	394388	775159	767239	240802	345363	359708	006385
$\frac{1}{49.239^{49}}$	543622	253189	153345	075258	993897	756644	354933	109119
	173191	040446	896656	764683	680738	434935	370519	932702
	401782	804018	732066	148383	254304	694222	419871	983583
	101838	381038	458048	084980	435837	996605	809345	347384
	432976	239490	445147	831838	552840	802261	657828	099085
	438466	667513	279919	583187	914730	134401	773474	156681
$\frac{1}{73.239^{73}}$	966038	423985	696035	715424	089116	384280	939429	900096
	117459	264077	930181	278306	839543	528545	882722	630144
	524509	771474	173524	213064	682859	619681	561790	296084
	896388	024264	167873	937459	585438	182393	859599	622981
	738659	172352	438188	445775	129549	468299	348596	152128
	954945	725916	753751	969527	186505	234825	351630	743111
$\frac{1}{97.239^{97}}$	874528	918513	854773	153555	738620	796565	790636	194008
	953112	115964	394228	220287	779899	052838	559798	270102
	920611	287833	528362	764513	006631	101491	381243	393157
	689306	916182	294172	735328	068646	958196	692647	323478
	069398	646490	703367	342097	674080	063066	697418	360686
	042772	124983	502201	736639	205744	161633	081304	417466
$\frac{1}{121.239^{121}}$	829699	649701	085457	976207	705143	686402	628802	549797
	876602	583658	276287	159879	053207	695933	210288	576572
	454736	187663	872262	904395	785179	399573	608321	111380
	354182	853815	196488	215366	134489	614588	791702	288696
		105	382137	494072	991758	515616	644780	896898
				31381	727985	876627	546469	013660
$\frac{1}{145.239^{145}}$						9	353686	137160	112871
								2789	500800
$\frac{1}{169.239^{169}}$									

418410 041841 004184 100418 410041 841004 184100 418410 041841 0041
026998 081645 598415 088971 451825 968019 436898 445077 036953 8450
116329 708304 043742 629036 122959 646479 859927 665075 324090 5052
058097 959721 448731 746117 314224 334605 116361 166495 516664 4223
895655 604274 098255 993901 354602 907606 992146 866659 354713 4761
735548 407822 035900 777641 747086 161097 777113 224197 208951 1707

435621 509823 585349 077328 913649 036479 780603 634282 447981 3940
568031 687744 373751 027420 255891 055274 690827 029194 944387 9927
646793 702697 332033 949882 809976 022400 616360 367271 707282 6230
044591 712545 149684 000397 913623 569730 710193 746287 601680 9208
931438 282447 544302 557189 276638 354952 435295 558710 095871 8769
129140 708290 563349 381197 650777 411655 970585 503708 654654 5931

462069 169434 831049 334711 784802 159426 031123 312809 991631 7094
011832 691383 186442 887703 308463 234440 510866 854676 843164 0482
954250 590558 878557 352208 945971 013238 137968 640573 566246 5951
378455 048250 611944 061169 181768 545524 301933 919273 767825 8359
970488 154736 641147 234264 894023 724871 759277 922254 523090 0735
626087 628779 233407 797366 967439 354074 445269 130612 386751 7265

583761 097165 835721 637331 186933 178334 151835 705855 728444 6829
363926 702670 463307 674752 316667 494637 351922 234867 039472 5058
192691 337150 811036 240986 601916 450342 656374 834776 338737 2921
617839 348523 729520 865292 751772 108868 665130 909743 670606 0365
053557 177668 530426 816358 172342 889479 959370 322872 712526 4697
295310 848648 135100 463572 810850 231648 624610 689766 800080 5698

398560 125673 267323 625938 412030 309465 023321 561992 457076 2592
668494 489365 603462 628148 309836 937570 986856 267129 297805 3921
798432 675594 316343 323981 360328 945766 824263 490257 524810 3484
536020 945384 117718 849661 069058 703982 458017 292982 607222 7089
994441 972084 533927 180066 616166 110744 784559 523407 645871 8805
635361 274517 585675 430539 001483 463536 770330 003298 862601 8994

744693 661319 862283 933051 652385 859184 380121 100009 248162 9033
603501 390634 224283 997054 270044 515920 328381 798741 214387 0220
615565 659093 318585 827450 523031 618147 356584 945057 728282 5246
278744 635732 626712 963427 196656 004388 887045 674606 470155 2585
915908 960622 408856 246916 975987 714761 820089 122659 263047 5500
702247 525917 426908 283004 704114 103846 899016 886028 054905 7563

057457 946152 385637 158554 413689 413795 634636 785356 292992 8798
113277 584405 665454 791519 870965 672919 875278 211795 376358 5594
832587 188989 279129 624456 264698 609281 994085 017991 392898 4823
248 673724 329196 278692 853919 109812 604324 551291 3889
74321 090151 028451 259417 557657 818852 6938
22 226055 749074 424966 228513 1716

6650 710368 145084 1519
1 991209 8541
5

+ Terms of Tan $^{-1}\frac{1}{239}$

$\frac{1}{239}$	841004	184100	418410	041841	004184	100418	410041	841004
	687118	309727	499841	085557	454243	718916	532322	645544
	916466	838050	687997	516877	811673	588166	535234	607767
	567360	254146	244672	634956	782637	178928	971852	050239
	981972	251198	860216	503543	636703	315762	126138	809561
	085025	009164	934881	990519	431147	564556	818629	676684
$\frac{1}{25.239^{25}}$	935063	814535	061790	557071	563447	547067	521681	921317
	749469	819781	232178	456690	228832	217687	469516	254173
	921334	455194	188322	961807	070772	754805	992836	786968
	781161	775607	293231	683267	071050	246002	968761	513359
	579752	952278	361093	176169	189009	323356	990784	991325
	562902	421750	764070	175295	502890	789881	766108	742961
$\frac{1}{49.239^{49}}$	787060	195112	001316	018914	322401	155162	083020	732598
	142973	676854	017267	815106	549283	605855	006074	006613
	872594	672111	433657	906906	729018	027013	500727	830941
	937762	284542	392191	213045	106151	435787	958809	746496
	963032	672642	927826	817118	258160	849490	110941	616466
	485751	832840	592062	869560	136346	581281	635246	373062
$\frac{1}{73.239^{73}}$	510202	028720	808640	620275	759253	723763	914596	831079
	306561	645225	868330	557230	807249	696743	570758	374834
	261869	328928	885867	351932	440897	543148	991657	032683
	992504	779789	780815	272619	149722	830421	866453	895556
	042194	184587	331221	614449	566055	997612	609327	778952
	854465	273916	568507	400150	215221	081658	605409	400506
$\frac{1}{97.239^{97}}$	675436	849110	160882	206425	402927	562754	903426	749906
	140461	213057	174453	916746	230896	262838	844142	100965
	329123	092640	732219	826464	883199	561340	661308	598558
	184936	566914	269001	104603	918988	897470	237423	549418
	569279	424190	043856	236628	956561	767038	392333	707935
	488792	735942	122270	462698	088418	525159	628505	500488
$\frac{1}{121.239^{121}}$	534829	109525	485299	168319	209473	622259	984082	202021
	160489	302952	570726	019684	391780	710928	542151	776060
	644087	546124	264937	135633	801875	484247	112930	388420
	067098	167216	766919	779674	727781	150268	489465	562475
	809592	029919	034150	012616	531153	289768	809152	193326
	466508	576201	636255	013806	308673	193491	761940	125225
$\frac{1}{145.239^{145}}$	869129	153652	141986	280853	997396	640333	010780	328607
	175124	640785	886938	798919	160208	086580	367765	499647
	324330	934062	653157	404902	209397	438565	078650	221527
	614121	850591	375178	093565	156734	976758	989275	585119
	887724	320780	106437	823074	448615	360166	723608	281251
	442711	675820	565231	828043	916878	382646	100281	167086

184100 418410 041841 004184 100418 410041 841004 184100 418410 0418
326412 797690 276830 329752 816233 526954 204140 839275 226388 2520
064477 370639 104339 692765 265858 458431 569131 831937 370297 4618
076205 518530 233194 685698 937878 181522 311209 345890 804842 8356
282055 280162 043819 764007 089860 830591 299875 776348 603567 0510
130471 980569 112035 107382 825081 485642 132787 103603 934702 9476

324636 941425 090599 935693 289556 358500 850386 812308 169673 9405
836633 496351 395948 642248 150372 966929 477739 360989 196283 5600
876488 635935 470635 807618 944693 907259 976364 759348 860235 8927
764347 038981 457336 852737 695321 492152 929437 835171 778255 8098
321841 392878 108060 660992 073444 464299 319743 197974 874775 8527
519266 154353 777310 649776 407957 673182 609308 600353 525715 1339

203651 055051 485819 437422 326633 754160 611268 542111 174953 4357
933771 978579 715972 675741 236981 271844 191258 660038 778156 8793
341168 575388 608743 569403 392138 577197 722815 690213 685254 7492
347793 367851 682356 738398 173634 634802 062093 397296 843934 5992
576050 003489 641673 642091 255155 352466 313358 658599 959990 4215
264652 789263 313276 543908 887220 916385 257005 385750 765200 4058

420535 771352 952684 626221 627668 774828 027205 538304 230873 5420
957958 210044 668632 224805 779028 192907 209298 365314 682925 5675
306249 611778 674744 374799 373738 520344 361780 110900 805383 8732
810612 333344 895260 399502 844058 557900 190095 936260 773657 0128
280269 549073 745176 196849 222089 734545 419440 534430 462948 9287
213422 230744 702664 591863 575253 184087 646081 896186 267114 1668

727754 151228 838468 146126 571735 590438 661117 750017 356732 5240
977880 847194 609292 628115 904385 323449 053597 960762 579391 3791
819876 552116 122430 189069 323636 423943 201842 068474 916246 0613
230123 307408 837830 842406 863534 056213 956584 626930 962190 2712
037409 516893 022638 959287 089942 433000 065990 809472 681747 0862
171325 653163 257357 257028 317711 863334 367523 131631 144378 5850

799244 178747 509683 401086 893565 174945 502384 545500 929658 1026
774374 894485 780652 628714 603656 173200 925113 446530 898849 6223
149988 498550 888903 664141 240511 203297 268645 043128 802437 7566
981116 586688 235656 948022 903172 119063 654435 286674 157567 5765
802898 798752 943517 045947 333739 263533 690004 226288 796646 3878
260422 036143 816598 565523 248479 341546 297629 292127 059663 2020

700452 502226 264526 785267 207414 654609 920751 228841 564700 7132
382497 155909 724065 898614 677154 589866 089160 090296 081660 7554
648039 827120 364392 364061 942640 446143 160812 324076 784613 9753
676652 015806 027503 452705 523651 753889 784684 335986 677000 5407
312140 845167 429317 479694 708300 908498 894598 759499 151029 7741
686545 357619 803903 827244 827574 214490 782266 984191 201616 9618

$\frac{1}{169.239^{169}}$	301862 364999 027607 328599 461683 731845 995870 619895
	039023 731722 871014 163190 256435 235412 164486 697774
	964832 680960 745270 620356 087787 535012 220204 165961
	1787 727634 683305 915403 645975 379265 543726
	536063 942648 994249 915653 476418
	160 818096 234011 508527
$\frac{1}{193.239^{193}}$	48266 722331
	14
$\frac{1}{217.239^{217}}$	

932688 158021 452639 685368 041674 861003 584337 276777 928044 8068
543511 480509 872128 094084 078920 116503 207875 783972 733567 2964
323191 975265 773897 819313 350369 648247 323675 322586 047293 1625
300179 799170 382252 035877 683114 879874 720169 166405 207204 0946
421026 332687 150656 476624 295388 879417 797330 692223 336599 1020
967267 047217 015177 871705 195347 371683 687501 904963 727049 2112

351939 250894 761459 956985 988341 458696 624003 169201 347997 8582
492632 747737 343024 087588 728287 654078 722487 681422 560895 1969
4353 372725 358159 081927 125690 173865 571982 974920 6006
1 308206 927512 053908 475286 109283 297848 3067
393 271446 639499 222418 620752 3478
118268 065896 017777 9996

35 579165 7295
107

$\frac{1}{3.239^3}$	·000000 024416 591787 083803 627411 892301 245951 820643 3 207130 657784 694717 044358 353107 625 504450 992156 534929 140585 401882 34
$\frac{1}{27.239^{27}}$	

920706 922838 711051 049550 860456 565361 494844 302352 902425 9031
504117 774838 012668 419931 103731 062768 199794 916876 363675 6532
277333 160941 927840 356942 027239 372947 843998 290857 741262 3560
572368 816240 990308 822735 650056 088436 919830 637539 044104 7818
016237 966206 817495 701548 360914 304927 010909 500230 454650 3047
8612 325632 805329 801939 499709 443756 491259 986594 8806

2 248500 094939 031410 240775 524232 665049 6573
600 210207 188417 609928 216711 4821
162931 637564 678357 1890
44 814365 9242
124

$\frac{1}{3.239^3}$	520281	751842	604203	360226	011693	545305	486601	065632
	101281	103187	917333	402164	097154	982286	102519	152410
	861703	062037	380554	550367	525015	645469	534458	727107
	542884	613082	620427	824045	476000	156736	848854	838391
	371193	984548	080758	484615	396070	691150	803634	967427
	681376	246905	741759	792589	026665	370979	973435	179771
$\frac{1}{27.239^{27}}$	603139	372749	989959	736065	414538	477266	569362	159304
	549955	550537	846822	051549	422643	903446	747486	845864
	555139	664655	984709	311351	257509	592700	295037	506081
	434561	277907	553011	692820	680656	701443	978475	504820
	572391	981514	422356	565487	303770	060212	449348	954085
		34930	177899	133497	922044	539267	145002	995317
$\frac{1}{51.239^{51}}$				9	865903	779529	382304	583072	860173
						2803	836973	366198	136465
								801072	517174
									229
$\frac{1}{75.239^{75}}$									

848637 128108 754039 145217 118072 069819 146548 798988 137369 7963
024230 818992 732051 828519 026857 093550 202220 633273 796457 2426
814920 312562 844693 403272 473401 199302 623645 646552 130183 9577
548524 327244 155279 453327 311601 824689 160763 899236 796668 1924
838944 282650 266217 433605 898063 290353 475549 367917 639082 0039
457044 928621 718506 699419 026184 538634 054516 643736 696033 6581

343330 612585 382276 759755 103159 553766 093129 312854 822358 7319
860674 140196 499720 833764 409859 799363 212605 129977 080039 6717
577089 266394 232967 357081 636340 934253 972947 686922 337209 6904
931397 319552 758149 865416 893480 431871 162039 126006 526909 1571
056906 338235 919081 554691 705361 047721 736803 396736 139201 6285
235202 129462 697097 698102 423904 338985 266837 663054 724976 0247

346350 708842 725419 735958 858458 905263 673954 876773 063735 4980
285644 563574 268752 225546 142491 122806 751783 998285 173881 3016
347831 626125 105459 600283 386711 263426 065390 135644 203667 8147
927909 539383 562310 390627 607485 769715 222633 107483 780931 4615
66262 197374 111335 909268 565575 777644 932375 750987 7404
19 164199 532321 846748 806750 213671 882399 5416

5560 273643 580195 153162 132236 6141
1 617851 790183 264345 3466
471 950150 5116
1379

$\frac{1}{3.239^3}$	878435	942473	240086	857630	296028	956319	864872	721068
	006968	686322	018698	553157	711856	703874	482898	698422
	401404	688698	265721	170859	046846	234751	009662	891379
	172339	376274	921247	635229	673748	218026	235730	287215
	150374	899072	552083	318740	305824	893296	056129	014058
	453810	982153	246571	359024	230675	485295	008008	416996
$\frac{1}{27.239^{27}}$	225943	801122	499240	627163	424048	880792	381289	572733
	730740	689451	977308	621665	160962	730211	947537	408949
	978063	023951	052669	367215	156951	572070	799360	797611
	494617	565844	084944	718745	250700	372102	289106	125236
	368734	022321	893231	083480	102500	874831	752150	397753
	930093	257363	283003	123574	839574	616583	636742	982308
$\frac{1}{51.239^{51}}$	890555	014778	203043	909096	949107	613683	643695	423437
	889702	999708	110041	993214	683172	956262	001181	363995
	647015	045179	924211	918245	618100	519015	517547	693617
	998555	187625	903072	410410	284023	240551	226668	804707
	587000	028260	699149	404876	331183	904575	895173	150176
	210866	978341	069939	433801	914880	333119	403489	909429
$\frac{1}{75.239^{75}}$	735386	250625	340940	069413	715068	883750	928310	116517
	637905	349591	342797	567068	209332	245032	517498	865642
	238617	368256	779071	973791	909780	790384	875437	586131
	950044	752981	754006	963372	937353	861970	365533	749865
		404342	713621	210758	501525	926569	394387	726591
			118	706856	538024	109877	654908	281195
$\frac{1}{99.239^{99}}$					34911	829789	476506	398403
						10	284400	425048
								3034
$\frac{1}{123.239^{123}}$								

249330 613032 009150 752603 596119 588266 919349 091752 839533 6460
960413 212062 997328 524869 829964 465477 842668 283651 271215 8188
205880 171592 906884 411846 798322 245853 588123 667908 096772 7956
992691 436364 761502 777977 875054 718637 656582 986626 323991 1733
486337 211364 042298 322572 898962 687671 078789 762751 790292 6968
466520 331504 951238 565339 951772 162213 642273 638594 048994 9310

006506 242874 535859 853114 386376 217161 977014 987608 195866 5621
186191 123564 692191 546845 044737 995758 842553 066037 156412 5241
961977 475123 156587 318893 256873 763584 039898 504504 587954 2732
956532 436386 198749 514480 978470 481546 577668 152835 590402 2699
797553 606125 814410 315879 434641 343748 975351 316090 816542 9928
794241 336474 112737 274514 048480 849552 972328 826128 654265 3610

268304 231101 095862 817491 158495 566370 932222 032909 539682 5660
114743 037455 176535 637162 976382 815140 751747 896093 689556 4989
717144 933197 639176 359015 015092 413006 516957 792685 294866 1169
084776 083418 725621 399045 504438 650623 695053 466592 182028 4681
253522 773673 429667 332215 811178 534654 790282 691100 378961 6838
206994 250150 379013 561931 592139 152212 070290 627486 958320 3937

792576 114788 651874 075900 528068 580830 355760 591097 403290 0246
754282 780704 000724 743670 312914 953071 503755 351948 362847 6816
282482 898076 330295 943977 511171 006240 264820 798451 346988 1826
959510 716107 854491 688570 712559 170196 381263 730145 356805 4763
958357 943527 629273 707908 520435 797977 033104 205877 600687 4127
214286 000519 102665 234999 599383 234095 545010 593060 341109 8834

952527 811893 198677 053320 008473 987864 399241 736866 764457 2340
158740 317759 022926 697554 369559 429040 181142 200322 316452 4863
176363 687225 746625 906376 366583 378446 350458 740520 618506 9417
896416 859435 951241 891677 547242 387587 321956 192060 8512
265 181700 119815 611257 884843 145839 304531 8041
78542 157301 940558 896469 793585 3122

23 289119 640503 145179 7986
6912 941132 3251
2 0540

$\frac{1}{3.239^{3}}$	268577	138007	728681	464732	784697	399195	917682	586113
	622990	513931	002087	142504	293233	551092	676196	381839
	063257	312505	993808	728128	132911	229861	338429	557704
	265614	406728	055706	359068	942121	050967	308291	463579
	828062	767794	968839	981347	249339	862835	963867	307992
	623574	459209	140801	789794	279793	842694	055503	797889
$\frac{1}{27.239^{27}}$	221363	426229	066256	851069	194020	641428	873502	601412
	323417	579476	428128	007072	013673	111691	209761	282903
	263101	372090	250940	022821	994833	965785	858106	240311
	600769	614814	467400	678819	368132	377481	163811	071361
	985349	875701	524369	796984	283363	430724	294104	014494
	023180	775825	169747	863415	558598	017610	820684	566528
$\frac{1}{51.239^{51}}$	055045	734524	477371	398352	066422	019507	291392	572465
	153204	657775	963205	865318	925290	994439	889667	909925
	130846	799381	221091	393491	620922	904179	195777	364881
	148022	788755	933407	289658	623258	559209	395636	711616
	972560	250720	862228	031410	950753	646201	202894	969705
	829571	880941	657681	041912	569577	680880	363360	696312
$\frac{1}{75.239^{75}}$	694373	352661	881726	116047	740984	577883	452672	648910
	497913	499715	645601	669464	804698	762908	517768	514415
	190360	113859	226631	788714	267775	953862	724764	678365
	351746	792900	423411	376834	190470	192081	762203	538881
	524398	224756	803971	172583	450474	908556	884285	551734
	913014	523159	518300	136447	774489	489990	654880	858023
$\frac{1}{99.239^{99}}$	933684	604187	760174	513998	353469	861907	049854	949366
	203146	559147	854315	859052	780490	974414	955391	839742
	331965	029177	318213	079742	064822	501940	160245	995352
	194321	982772	758487	564146	372819	053234	463625	500941
	972404	246674	991752	744632	813339	367467	401623	678838
	026189	576974	755059	951255	353057	407997	810790	643982
$\frac{1}{123.239^{123}}$	195306	041056	706157	979063	289430	285472	453030	898053
	119409	808646	703052	731671	141656	005405	019025	269340
	153278	163759	803401	072921	893948	748697	861950	675407
	6	108711	339530	850745	382439	731527	511177	934353
			1818	347852	400413	645565	048709	590857
					541706	600013	320329	088199
$\frac{1}{147.239^{174}}$						161	506953	777464
								48188
$\frac{1}{171.239^{171}}$								

595702 797045 113828 563832 918532 063758 460135 409046 400973 6164
546201 759649 086345 507345 171671 312101 479058 701183 766253 5539
634204 021395 370809 961125 046074 611370 150953 461390 550009 3371
842941 306202 011377 991179 775710 141531 543993 175534 000270 4395
709087 750145 602879 639944 288461 546771 377582 460222 236645 4130
278546 340237 744180 548778 855013 871247 674123 747512 114360 8860

614927 175733 997802 996320 956891 926771 377455 729190 118871 2457
858129 953290 408751 337020 165561 064678 547670 470881 477211 3003
930252 993866 248345 970894 040036 678633 947094 933758 222503 2776
285420 490597 496439 424500 134318 019495 313383 903970 210175 1891
746230 742723 455817 502219 826602 419332 829187 916111 944783 8516
719113 554515 618794 798321 798367 662592 892399 999086 547850 6281

655759 185227 816117 461493 815803 279418 136414 074231 250994 0507
320637 252382 149952 455464 730619 800249 048780 682774 938009 6438
111516 585008 411183 063300 675702 076486 386636 831362 894139 7598
134962 480303 700411 887710 307892 793404 943219 230791 632160 3672
952979 125415 113264 843279 852697 641205 776756 268655 395980 3059
032212 370538 938903 628383 142757 924385 232913 457883 206727 3760

840041 459255 520294 581135 840333 478317 260643 915899 354579 0343
550271 148223 459377 633553 590308 377884 275214 151884 127113 2497
917124 060675 743547 505039 612573 595141 929266 443346 246149 5155
658845 503071 947192 762867 280906 995903 081688 968814 804348 9856
603754 545072 877394 681924 808523 363747 626489 513769 542940 8315
293000 447601 799002 222307 974534 466367 617278 204217 298332 0554

004509 417335 093606 347679 048149 598246 079801 050046 607293 9150
219908 499117 513941 355580 113783 207871 060745 970949 928649 0079
427232 899014 166419 181326 182645 699404 675059 608283 003278 6778
222948 475629 345523 802933 051878 733070 154708 398196 421521 5317
096950 618472 433507 258622 062780 174012 072642 233188 608021 8702
623882 508187 193153 958451 662623 184774 828401 588403 209222 6636

458266 684476 957515 992844 728449 070200 708054 773279 472646 9296
808312 487867 491302 554102 877864 292716 992404 857339 702092 7943
457411 541131 852423 374135 304995 044145 438818 573222 681094 0039
052565 486136 518830 961542 214910 538220 500564 685242 532280 1474
585689 482282 606854 137771 380887 361578 006043 884905 915905 5184
951221 081894 385450 343121 197103 398354 424708 872991 235750 6500

685754 602492 857338 874665 748981 126348 090092 915579 956555 1066
122925 862661 019745 832074 602231 138463 390316 827894 863536 5865
14 387775 572664 898320 830179 793645 432942 869438 758208 5921
4298 694927 504530 078406 664402 934186 039252 4963
1 285152 132043 406366 268895 206409 7315
384 444870 375208 350068 0617

115070 189281 8394
34 4611

$\frac{1}{3.239^{3}}$	308283	240864	037746	878906	425780	385404	669726	895781
	074329	520020	279350	599617	923323	849418	889181	766058
	400545	649031	390232	523904	839806	256674	099318	380139
	201888	827440	350485	438215	080779	601528	131599	743324
	420237	827113	330409	982576	746354	528988	203210	492555
	630597	888331	020011	396495	312321	786854	340247	355326
$\frac{1}{27.239^{27}}$	277840	592190	174189	387936	023262	564905	218543	898072
	193506	447052	563378	890185	714432	258479	206244	478174
	669886	433579	354807	321129	201736	331897	405056	315847
	482150	532892	926562	932565	678562	524653	738694	083129
	388732	026575	589807	847649	491079	014797	334600	040055
	949039	247632	583904	337137	956230	141571	641192	986330
$\frac{1}{51.239^{51}}$	967999	326489	780547	748307	575079	457284	382874	217825
	643184	429100	226874	979968	901947	257745	077137	789452
	306555	527204	162900	022373	170270	886164	499378	079505
	782604	958479	773259	361612	482260	985726	368965	431331
	738815	140816	214908	626475	066593	847638	756077	949010
	764169	394023	328782	624366	707503	150074	578139	864695
$\frac{1}{75.239^{75}}$	217276	598740	240686	503099	334192	427892	096839	052903
	952822	246810	885440	359107	306247	332882	882917	419671
	645418	573806	574468	899618	819430	178697	175931	187339
	304455	004048	933053	662712	401527	897210	456016	970746
	711151	199041	792768	903090	756447	298588	592352	388283
	967800	295636	589408	240713	059529	220161	558105	241610
$\frac{1}{99.239^{99}}$	432121	766919	800000	248555	126953	448275	154907	848887
	642896	570707	170041	626818	353641	268844	989205	041036
	233818	872762	595499	745511	827706	087103	494315	221876
	815574	549756	285283	338170	607302	117125	763888	271817
	057345	745617	797379	773639	138133	480411	860305	443700
	132784	788527	215369	923943	575428	828728	083150	118912
$\frac{1}{123.239^{123}}$	046213	367675	244888	609901	327224	541927	084959	723062
	647946	135226	253244	609867	747323	642791	833673	119787
	358904	391827	854120	064249	641849	135033	888537	613273
	257546	057077	826320	604711	207169	549097	916989	613201
	399494	612422	285559	365843	444096	744270	958610	876878
	079202	348114	320003	887215	857037	811026	388509	147317
$\frac{1}{147.239^{147}}$	101335	668479	774413	783273	378713	741638	658725	839198
	519301	607285	322060	855117	600241	762955	030685	389138
	134927	341295	632371	342225	185815	288293	848255	009708
	005341	460088	260487	959297	337333	845474	816414	907851
	840795	706586	442921	471994	120648	442346	849631	602286
	029613	996994	352926	114639	469218	592796	354729	124380

709028 110504 708776 351026 792155 251824 548133 733677 538911 0742
586713 498072 984044 857537 129862 375277 630621 264394 121691 8769
560046 504623 097940 319763 364989 778836 514327 833874 959911 7864
583612 554252 365905 162177 265904 766392 231450 249728 933994 4596
288949 676485 247618 163230 582650 981558 188160 219338 816239 8202
724707 763695 824920 365644 292123 833777 114245 494521 679518 3289

145052 131650 055163 771900 969373 162305 205597 513057 277179 7891
159461 868083 877513 259916 625881 538858 959252 235035 568912 1125
796768 726100 226271 814459 856607 739909 985359 009839 792977 0075
871546 312995 688555 837367 078744 997414 489735 190659 100791 3455
583491 346398 122631 732998 901424 276097 308028 737637 368316 0006
783912 004258 576854 575218 355040 404373 132963 886995 771167 6099

145627 214777 882082 035401 434963 483109 626544 391715 612797 0423
486201 855364 406570 723568 251219 678802 226133 084857 816041 3038
433946 922251 217872 823163 512244 851591 848368 924989 248864 8270
522162 009022 739795 922985 275837 060929 339618 456197 616451 4815
850840 450306 256612 817145 362262 300243 476419 752129 430663 2658
365310 816855 659056 501526 295357 006720 655653 573886 424149 4763

758407 053824 059748 147727 972591 240774 394109 810403 481780 5135
379873 761823 872760 330597 629869 212828 209859 442496 846962 1306
926541 017708 245648 194773 672955 354511 686119 131209 943247 7697
133853 161890 122403 218079 700088 508418 894095 184140 177156 8523
196544 398230 374572 758826 697284 935716 060343 529516 879497 0234
698448 602323 868216 472659 984633 266693 532409 241253 579948 5379

633526 595262 806315 873394 078789 233055 025058 471202 413250 9781
579572 909010 486962 446871 075709 381178 681391 284927 607604 6570
572011 518921 543690 227544 488242 287085 361511 837949 051237 8798
308095 787721 766479 806114 414358 917431 973839 202370 364960 1862
975984 500830 869163 561745 341421 096710 024259 326991 058708 0267
183486 072408 199092 198471 661338 869807 114474 374713 975278 4693

061329 189305 547565 860645 776696 554922 159735 052310 151707 9758
296065 500527 035745 859229 149741 866798 529784 285683 480910 5131
350785 596093 830154 398179 607507 890501 257521 719356 775060 1360
839798 878988 661436 099245 342997 823579 423727 025202 915923 5017
992552 852544 299706 739137 919237 796513 888303 439987 612005 4047
093496 864588 286732 034842 211262 000881 597808 989912 615865 9163

689703 164509 570483 133177 471781 179530 327307 160337 422162 4154
433732 689915 045051 788612 658499 297707 154945 889219 417467 1343
749985 757466 018589 372761 241018 892434 708200 487170 198830 6708
121710 101921 616635 096042 074511 275614 455939 355421 141186 4727
232923 184877 916780 052431 398812 749176 005807 715512 563241 6855
314768 646909 958790 876865 497875 929282 737126 794088 061151 0230

$\frac{1}{171.239^{171}}$	052060 206935 260834 486434 770849 018928 903665 492912
	118512 806258 952855 135634 403350 717979 199674 321047
	103 257759 943881 934145 657378 650808 178264 231221
	30955 158833 824273 779480 479846 458339
	9 284337 431934 660912 087259
	2785 913011 171763
$\frac{1}{195.239^{195}}$	836324
$\frac{1}{219.239^{219}}$	

783831 165860 867796 237217 867272 730377 272336 497233 560671 5895
672234 232342 483820 849290 881416 707208 522765 454037 231969 5190
537574 427174 502547 417954 380528 780023 640864 334989 763250 8204
220506 247024 808695 259178 841603 969618 827306 232261 351379 4371
098020 169574 499008 706393 527455 568982 393065 448379 545673 8257
065635 703749 661576 850008 011126 735617 378064 892085 886032 1780

276980 258665 964844 665038 247489 539740 113402 851312 185770 3025
251 168189 409456 604968 194113 850415 560013 995686 423948 0077
75462 305521 257568 560263 288960 177869 756611 0381
22 681102 345074 495326 129340 690465 4606
6819 624222 302795 776712 1061
2 051222 804943 3851

617 1853

Value of Tan $^{-1}\frac{1}{5}$,

·1973955 5984988 0758370 0497651 9479029 3447585 1037878
4112628 1180736 9136010 4456479 8867942 3935574 7565495
3186928 0664389 6806189 5284058 2593112 4251613 2973139
0488878 1553093 8429057 9311695 9341928 5180636 4919697
2982251 4023246 6755492 1102670 4574378 8154748 3907997
4774413 5290970 5465122 4383026 9756051 8377617 7816424
5985563 6303434 7839296 ± &c.

Value of Tan $^{-1}\frac{1}{239}$,

·0041840 7600207 4723864 5382149 5928545 2741048 0653076
9454975 4506664 4486375 6052458 3947893 1186505 8922128
3198601 5454814 8059924 4983021 1460391 2539495 2760779
9102328 3097700 2064652 8276346 5329691 0481838 6543560
6551103 2510343 5262824 4512693 5567049 9684445 2479043
4522355 3881423 7677083 6515691 8252702 0022930 8954495
6516494 2122006 8523882 ± &c.

Value of π,

3·1415926 5358979 3238462 6433832 7950288 4197169 3993751
7982148 0865132 8230664 7093844 6095505 8223172 5359408
8196442 8810975 6659334 4612847 5648233 7867831 6527120
1412737 2458700 6606315 5881748 8152092 0962829 2540917
1511609 4330572 7036575 9591953 0921861 1738193 2611793
8301194 9129833 6733624 4193664 3086021 3950160 9244807
9703041 2366929 13332 ± &c.

5210151 7688940 2410339 6997824 3785732 6978280 3728804
2163032 7005221 0747001 5645015 5600612 8618552 6633257
9339711 3233537 8217960 8417664 8310525 4730396 6572565
5194017 0856094 9527368 6737385 0840081 2367856 1580093
8985020 0752236 9683796 1392278 3541932 5572232 8413846
2337830 3370181 9264880 2827768 6119150 9856067 5901213

TO 609 PLACES OF DECIMALS.

3195082 7019612 8871817 7834142 2893273 7826058 1362290
8330928 0084627 1962330 7733759 4763460 3318473 4145703
6881558 8812733 9785334 6518045 7425481 3586746 4475197
7891959 1451232 2209446 3686276 6155208 3167964 2646574
3177283 9307086 3140193 8695195 0370586 4107708 5585540
0043585 4409344 9644014 2418724 9509228 3862395 4553335

TO 607 PLACES OF DECIMALS.

0582097 4944592 3078164 0628620 8998628 0348253 4211706
1284811 1745028 4102701 9385211 0555964 4622948 9549303
1909145 6485669 2346034 8610454 3266482 1339360 7260249
1536436 7892590 3600113 3053054 8820466 5213841 4695194
1051185 4807446 2379834 7495673 5188575 2724891 2279381
7230943 6285530 9662027 5569397 9869502 2247499 6206074

EXPLANATORY REMARKS AND FORMULÆ.

FROM the Exponential Theorem, we readily find that ϵ, the base of Napier's Logarithms $= 1 + 1 + \frac{1}{1.2} + \frac{1}{1.2.3} + \frac{1}{1.2.3.4} + \frac{1}{1.2.3.4.5} + \&c.$

The above series the Author has summed to 137 places of decimals, as will be found below.

The following series, given by Mr. J. R. Young, in his "Essay on the Computation of Logarithms," were employed in obtaining the subjoined values of Napier's Logarithms of 2, 3, and 5 :—

$$\text{Nap. log. } 2 = 2 \left\{ 7 \left(\frac{1}{31} + \frac{1}{3.31^3} + \frac{1}{5.31^5} + \frac{1}{7.31^7} + \&c. \right) + 5 \left(\frac{1}{49} + \frac{1}{3.49^3} + \frac{1}{5.49^5} + \frac{1}{7.47^9} + \&c. \right) + 3 \left(\frac{1}{161} + \frac{1}{3.161^3} + \frac{1}{5.161^5} + \frac{1}{7.161^7} + \&c. \right) \right\}$$

$$\text{Nap. log. } 3 = 2 \left\{ 11 \left(\frac{1}{31} + \frac{1}{3.31^3} + \frac{1}{5.31^5} + \frac{1}{7.31^7} + \&c. \right) + 8 \left(\frac{1}{49} + \frac{1}{3.49^3} + \frac{1}{5.49^5} + \frac{1}{7.49^7} + \&c. \right) + 5 \left(\frac{1}{161} + \frac{1}{3.161^3} + \frac{1}{5.161^5} + \frac{1}{7.161^7} + \&c. \right) \right\}$$

$$\text{Nap. log. } 5 = 2 \left\{ 16 \left(\frac{1}{31} + \frac{1}{3.31^3} + \frac{1}{5.31^5} + \frac{1}{7.31^7} + \&c. \right) + 12 \left(\frac{1}{49} + \frac{1}{3.49^3} + \frac{1}{5.49^5} + \frac{1}{7.49^7} + \&c. \right) + 7 \left(\frac{1}{161} + \frac{1}{3.161^3} + \frac{1}{5.161^5} + \frac{1}{7.161^7} + \&c. \right) \right\}$$

M, the Modulus of the Common System of Logarithms, was obtained as usual by dividing 1 by the Nap. log. of 10.

Value of ε, the base of Napier's Logarithms, to 137 places of decimals.

ε=2·7182818 2845904 5235360 2874713 5266249 7757247
0936999 5957496 6967627 7240766 3035354 7594571
3821785 2516642 7427466 3919320 0305992 1817413
5966290 4357 &c.

Values of Nap. Logs. of 2, 3, 5, and 10, to 137 places of decimals.

Log. 2=·6931471 8055994 5309417 2321214 5817656 8075500
1343602 5525412 0679523 5847083 2754439 2266635
5206804 5602137 0371911 8226310 4298719 4582110
0448886 1730 &c.

Log. 3=1·0986122 8866810 9691395 2452369 2252570 4647490
5578227 4945173 4693570 0667031 1626456 2261348
7915959 6453630 4663543 4230252 7148232 3776931
0688498 5614 &c.

Log. 5=1·6094379 1243410 0374600 7593332 2618763 9525601
3542685 1772191 2646780 8257554 5759268 0738412
2078288 5798574 2982618 5124170 8082338 1773353
3644800 7449 &c.

Log. 10=2·3025850 9299404 5684017 9914546 8436420 7601101
4886287 7297603 3326304 4104637 8513707 3005047
7285093 1400711 3354530 3350481 2381057 6355463
4093686 9180 &c.

Value of M, the modulus of the common system of logarithms, to 136 places of decimals.

M=·4342944 8190325 1827651 1289189 1660508 2294397
0058036 6656611 4454084 2952103 2056138 9388912
2647096 6953461 1420043 3938056 4705613 4312230
2306044 292 &c.

2^{13}	8192								
2^{25}	335544	32							
2^{37}	137438	953472							
2^{49}	562949	953421	312						
2^{61}	230584	300921	369395	2					
2^{73}	944473	296573	929042	7392					
2^{85}	386856	262276	681335	905976	32				
2^{97}	158456	325028	528675	187087	900672				
2^{109}	649037	107316	853453	566312	041152	512			
2^{121}	265845	599156	983174	580761	412056	068915	2		
2^{133}	108890	357414	700308	308279	874378	165827	66592		
2^{145}	446014	903970	612462	830714	365452	967230	119608	32	
2^{157}	182687	704666	362864	775460	604089	535377	456991	567872	
2^{169}	748288	838313	422294	120286	634350	736906	063837	462003	712
2^{181}	306499	108173	177771	671669	405430	061836	723747	824436	720435
2^{193}	125542	034707	733615	276715	788464	153328	322047	108889	280690
2^{205}	514220	174162	876888	173427	869549	172032	807104	958010	493707
2^{217}	210624	583337	114373	395836	055367	340864	637790	190801	098222
2^{229}	862718	293348	820473	429344	482784	628181	556388	621521	298319
2^{241}	353369	412955	676865	916659	500148	583703	165496	779375	123791
2^{253}	144740	111546	645244	279463	731260	859884	816587	480832	050705
2^{265}	592855	496895	058920	568683	443244	482088	208742	321488	079687
2^{277}	242833	611528	216133	864932	738352	939863	330300	854881	517440
2^{289}	994646	472819	573284	310764	496293	641680	200912	301594	695434
2^{301}	407407	195266	897217	253689	137681	875632	210293	678733	187250
2^{313}	166873	987181	321100	187111	070794	496258	953336	290809	113497
2^{325}	683515	851494	691226	366406	945974	256676	672865	447154	128886
2^{337}	279968	092772	225526	319680	285071	055534	765205	687154	331191
2^{349}	114674	930799	503575	580541	044765	104347	039828	249458	414056
2^{361}	469708	516554	766645	577896	119357	867405	475136	509781	663974

2
25792
296440 32
508621 955072

395315 527974 912
624321 240258 523955 2
049321 980009 891412 04992
882022 830120 515223 756472 32
156476 551217 363035 650651 062272
880927 953786 318994 025066 751066 112

127228 089870 876259 952667 341236 679475 2
652112 625611 110916 076612 542970 543913 04192
383053 314503 110312 249804 976007 347867 819704 32
862498 637620 473983 897520 118172 609686 658950 889472
186879 441969 346143 804424 240403 500927 655506 284327 7312
141458 194306 441805 022921 688692 739799 676953 740606 386995 2

2^{373}	192392	608380	832418	028706	250488	982489	282615	914406	569563
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2^{409}	132211	193758	049719	790383	061606	554207	965680	936592	856243
2^{421}	541537	049632	971652	261409	020340	446035	827429	116284	339174
2^{433}	221813	575529	665188	766273	134731	446696	274914	966030	065326
2^{445}	908548	405369	508613	186654	759860	005667	942051	700859	147575
2^{457}	372141	426839	350727	961253	789638	658321	589064	376671	906846
2^{469}	152429	128433	398058	172929	552235	994448	522880	768684	813044
2^{481}	624349	710063	198446	276319	445958	633261	149719	628532	994230
2^{493}	255733	641241	886083	594780	445064	656183	766925	159847	114436
2^{505}	104748	499452	676539	840422	070298	483172	870932	545473	378073
2^{517}	429049	853758	163107	186368	799942	587076	079339	706258	956588
2^{529}	175738	820099	343608	703536	660456	483666	362097	543683	668618
2^{541}	719826	207126	911421	249686	161229	757097	419151	538928	306661
2^{553}	294840	814439	182918	143871	451639	708507	102884	470345	034408
2^{565}	120766	797594	289323	271729	746591	624604	509341	479053	326093
2^{577}	494660	802946	209068	121005	042039	294380	070262	698202	423679
2^{589}	202613	064886	767234	302363	665219	294978	076779	601183	712739
2^{601}	829903	113776	198591	702481	572738	232230	202489	246448	487379
2^{613}	339928	315402	730943	161336	452193	579921	490939	595345	300430
2^{625}	139234	637988	958594	318883	410818	490335	842688	858253	435056
2^{637}	570305	077202	774402	330146	450712	536415	611653	563406	069991
2^{649}	233596	959622	256395	194427	986211	854915	834533	299571	126268
2^{661}	956813	146612	762194	716377	031523	757735	258248	395043	333195
2^{673}	391910	664852	587394	955828	092112	131168	361778	542609	749276
2^{685}	160526	608323	619796	973907	161953	128926	560984	491052	953303
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2^{709}	269318	958159	276723	570738	682003	462587	676177	397904	546501
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808341 276387 918563 337388 723688 546221 947680 252152 376113 23392
358965 868084 914435 429944 212228 285325 097698 312816 132559 806136
103832 419567 580952 752105 149328 705669 160017 228929 487896 496593
856929 759054 881158 247262 269165 037842 087943 056969 518242 405004
837984 293088 793224 180786 254499 995001 192214 761347 146720 890899
013638 366449 169704 624450 049843 197952 488331 166247 791296 876912

351862 748975 799110 141747 404157 738813 392204 456950 953152 007832
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480498 264555 149905 494979 994934 337526 800933 236607 418785 571621
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445654 656916 442888 561084 282189 102735 939449 415668 666486 250168

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898673 244049 305629 305324 019649 152944 704710 576774 700207 178009
817696 560762 595585 763460 718448 293046 151049 452246 917204 860112
437285 112883 591519 287135 102764 208317 034698 556403 372871 107022
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2^{625}	602762	167013	693889	631286	567769	205313	788274	787963	704661	
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2^{649}	033654	307261	681734	422425	510536	259569	777366	438502	127327	
2^{661}	265848	042543	848384	194254	891156	519197	808092	932104	713532	
2^{673}	913691	358225	960298	165966	803417	710263	422194	864990	090662	
2^{685}	860647	980329	353338	128780	002679	894123	897731	016699	941135	
2^{697}	277214	127429	031272	975482	890976	846331	485106	244402	958891	
2^{709}	324746	906594	931209	410757	792144	116257	376299	517707	451961	
2^{721}	718616	332941	283823	374646	391662	230019	021332	282452	972323	

232
398272

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301904 737075 2
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245565 444243 158643 026113 3312

397836 059619 977801 834960 204595 2
870153 650020 342907 631599 699802 19392
511614 935048 332454 965903 237038 978629 632
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776363 427413 184403 677323 124290 214488 872006 4512
543598 459868 440331 746231 551709 271854 641973 842411 52

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